

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO. USA-U-21269
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
7. UNIT AGREEMENT NAME N/A
8. FARM OR LEASE NAME 'Federal' ✓
9. WELL NO. #1-29 Straw Spring
10. FIELD AND POOL, OR WILDCAT Wildcat ✓
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 29, T39S-R24E, SLM
12. COUNTY OR PARISH San Juan ✓
13. STATE Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Celeste C. Grynberg

3. ADDRESS OF OPERATOR
5000 So. Quebec, Ste. 500, Denver, Colorado 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface: 1631.6' FNL, 1169.4' FWL
 At proposed prod. zone: Same ✓

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
N/A

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1169.4'

16. NO. OF ACRES IN LEASE
2390.00

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1813.4'

19. PROPOSED DEPTH
6300'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5003.11 GR

22. APPROX. DATE WORK WILL START*
Dec. 31, 1982

SWNW

CHIMNEY ROCK

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
18"	13-3/8"	J-55 68#	100'	Cement to Surface
12-1/4"	9-5/8"	N-80 43.5#	1915'	1000 sx
7-7/8"	4-1/2"	J-55 10.5#	6300'	500' Above Top of Pay

1. Rig up. Drill 18" hole to 100' and set 13-3/8" surface casing.
2. Drill 12-1/4" hole to 1915' and set 9-5/8" casing.
3. Drill 7-7/8" hole to 6300'.
4. Run tests and logs.
5. Set 4-1/2" production casing if warranted.
6. Perforate and stimulate as needed.

RECEIVED
DEC 06 1982

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
 DIVISION OF OIL, GAS & MINING
 DATE: 12-17-82
 BY: *[Signature]*

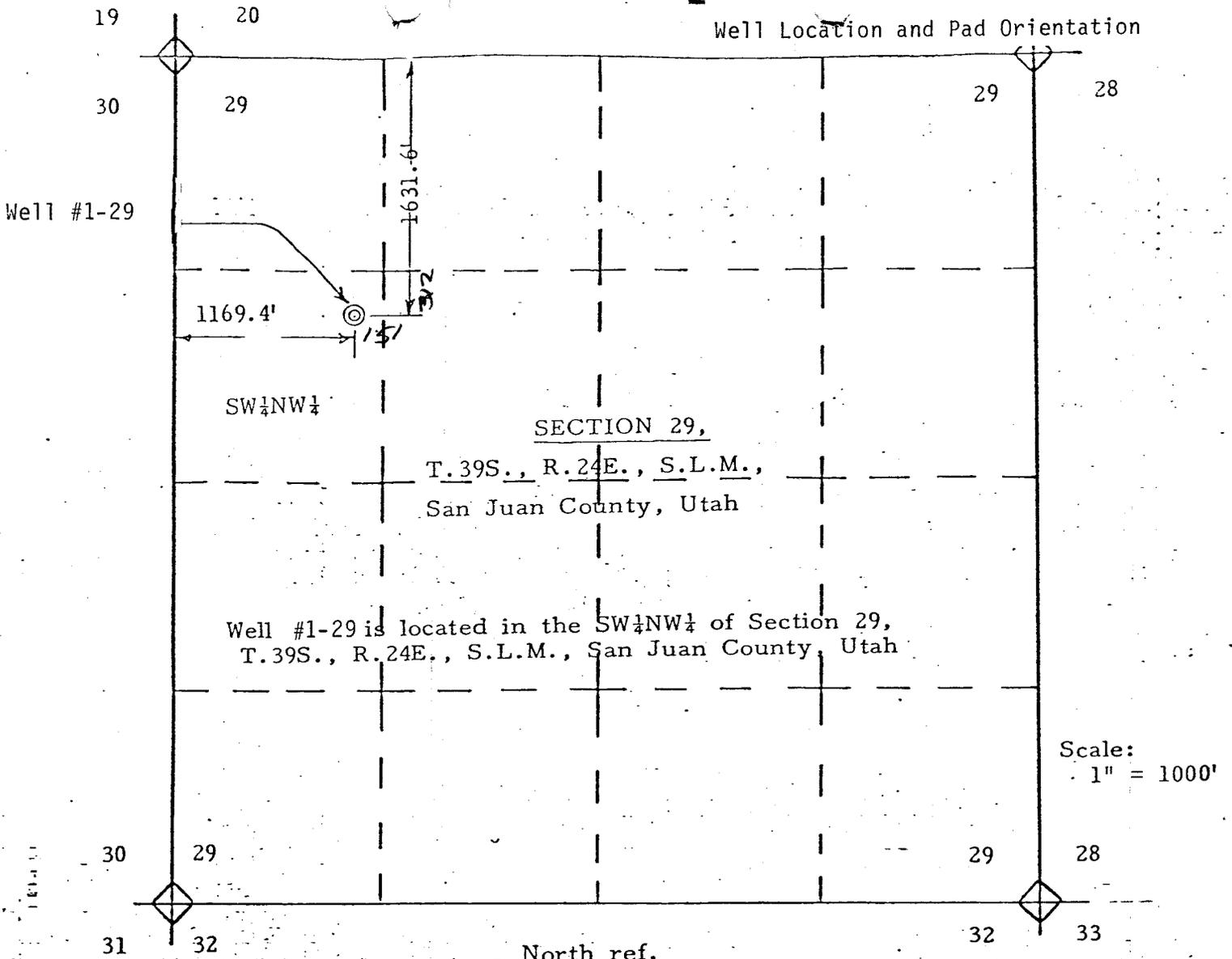
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *[Signature]* TITLE Attorney-in-Fact for Celeste C. Grynberg DATE Nov. 30, 1982

(This space for Federal or State office use)

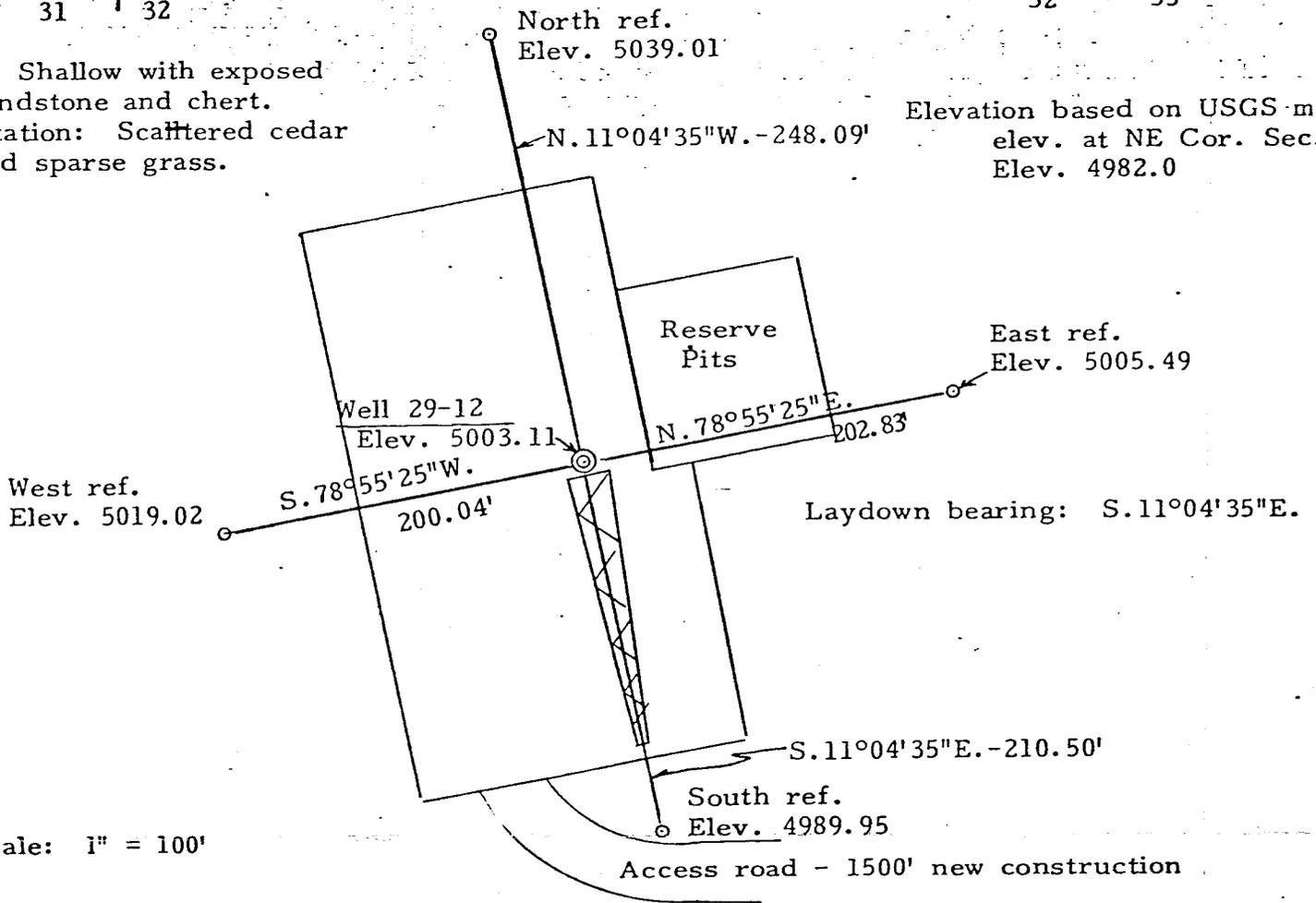
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:



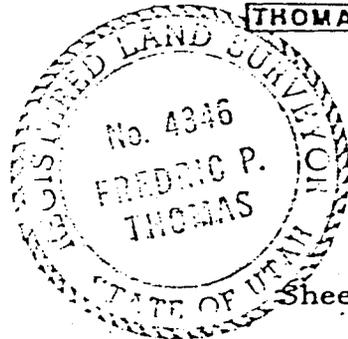
Soil: Shallow with exposed sandstone and chert.
Vegetation: Scattered cedar and sparse grass.

Elevation based on USGS map elev. at NE Cor. Sec. 29 Elev. 4982.0



KNOW ALL MEN BY THESE PRESENTS:
THAT I, FREDRIC P. THOMAS do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the same is true and correct to the best of my knowledge and belief.

Fredric P. Thomas
FREDRIC P. THOMAS Bearing by
Reg. L.S. and P.E. Solar
Colo. Reg. No. 6728 observation
Utah reg. no. 4346



THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

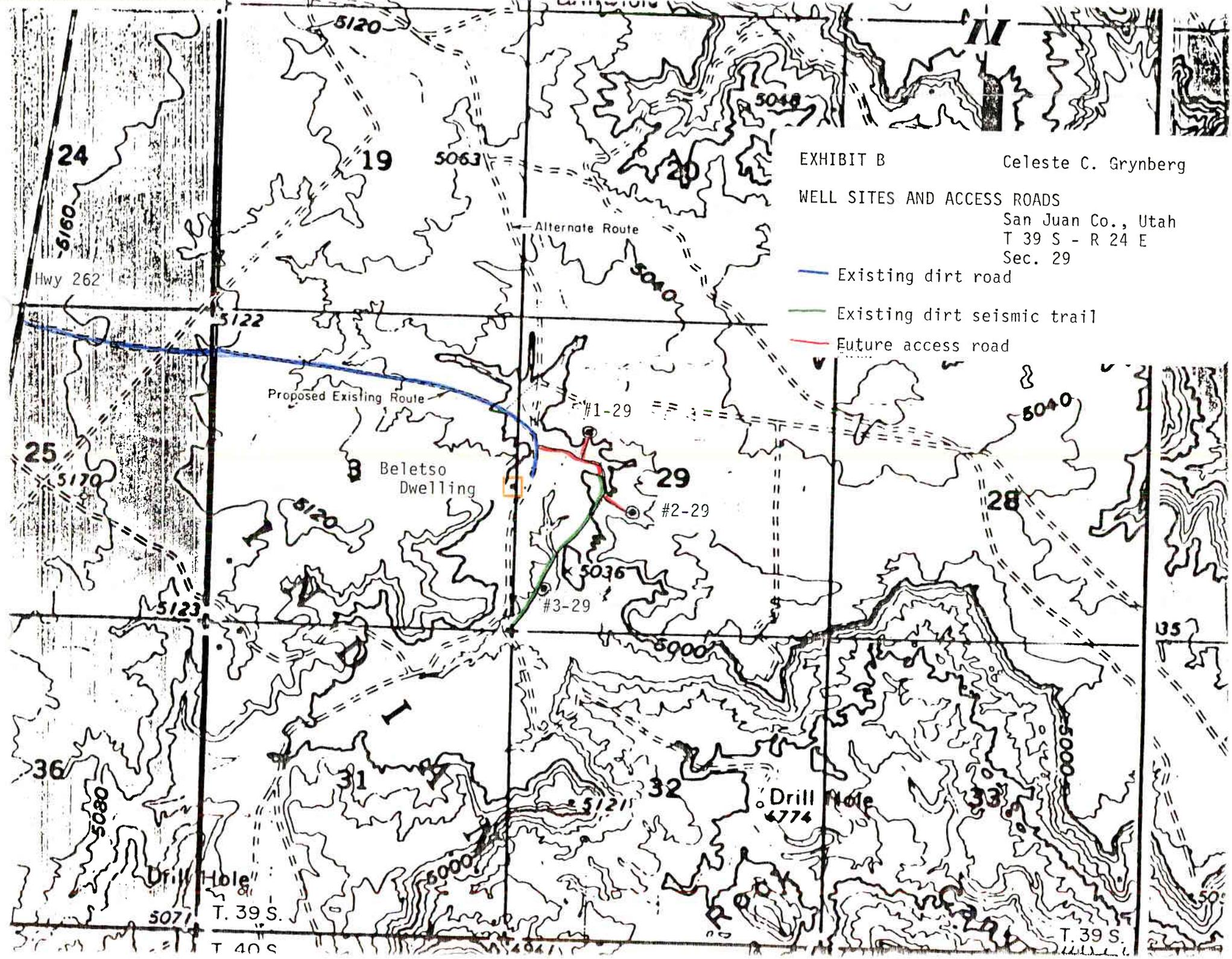


EXHIBIT B Celeste C. Grynberg

WELL SITES AND ACCESS ROADS
 San Juan Co., Utah
 T 39 S - R 24 E
 Sec. 29

- Existing dirt road
- Existing dirt seismic trail
- Future access road

Alternate Route

Proposed Existing Route

Beletso Dwelling

#1-29

29

#2-29

#3-29

Drill Hole
6774

Drill Hole

T. 39 S.

T. 40 S.

T. 39 S.

24

19

20

25

28

29

36

31

32

33

35

Hwy 262

6160

5120

5063

5048

5122

5040

5170

5120

5040

5123

5036

5000

5080

5000

5121

5000

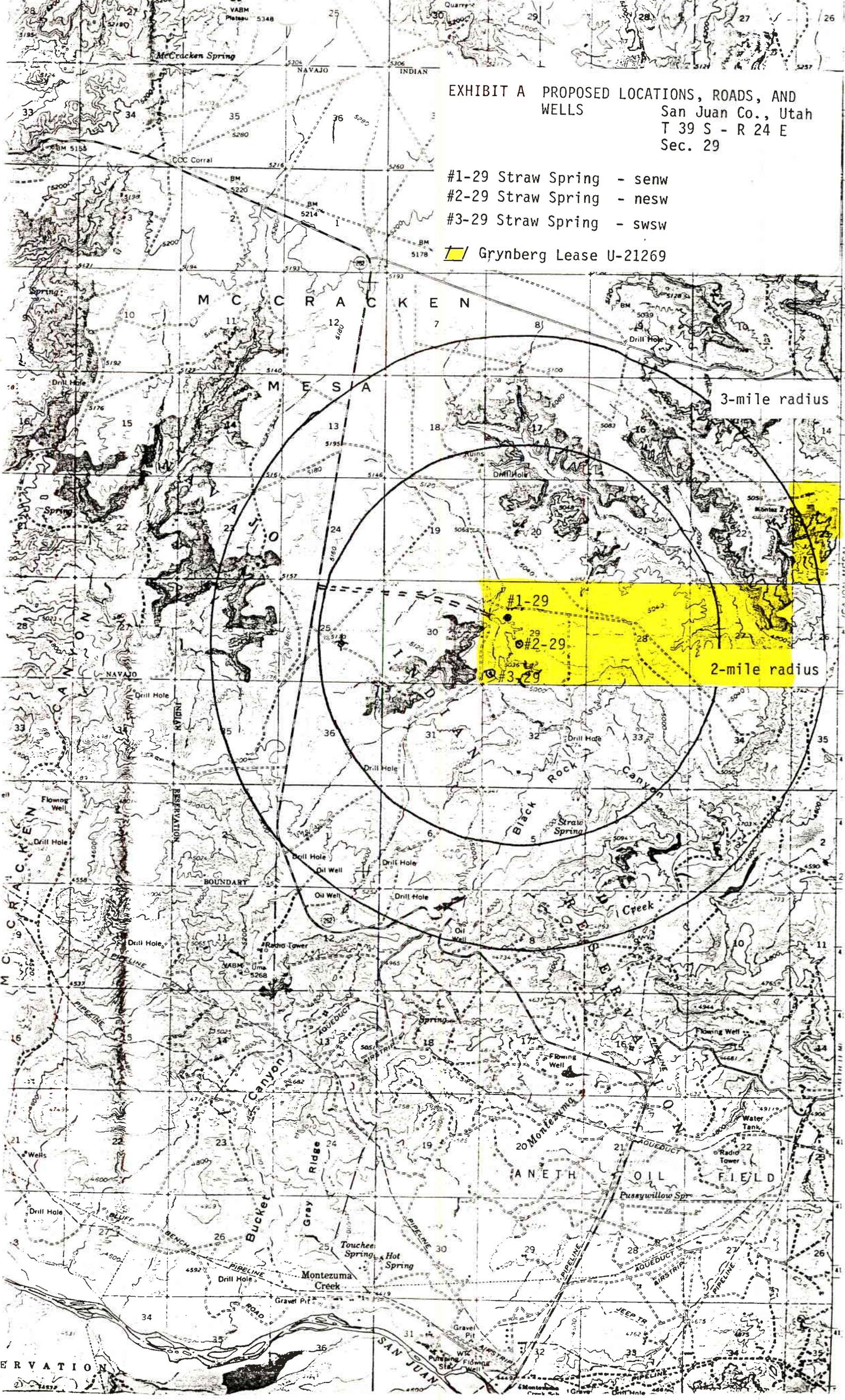
5071

5041

5000

EXHIBIT A PROPOSED LOCATIONS, ROADS, AND WELLS
 San Juan Co., Utah
 T 39 S - R 24 E
 Sec. 29

- #1-29 Straw Spring - senw
- #2-29 Straw Spring - nesw
- #3-29 Straw Spring - ssw
-  Grynberg Lease U-21269



JACK GRYNBERG AND ASSOCIATES
PETROLEUM, GEOLOGICAL, GEOPHYSICAL AND MINING ENGINEERS

1050 17th STREET • SUITE 1950 • DENVER, COLORADO 80265 • PHONE 303 - ~~572-4455~~ 850 7490

TELEX: 45-4497 ENERGY DVR
TELECOPIER: 303-623-5224

December 2, 1982

Mr. Ron Firth
Division of Oil, Gas, and Mining
4241 State Office Building
Salt Lake City, UT 84114

Dear Ron:

Enclosed are copies of the APD's we just submitted to the Minerals Management Service for three wells located in Section 29, Township 39 South, Range 24 East, San Juan County, Utah, on our lease #USA-U-21269.

Well No. 1-29 Straw Spring is located in an unorthodox location because of the need to avoid Indian ruins sites identified by the archaeology crew to the north, east, and west of the present location. Its present location in the SW $\frac{1}{4}$ NW $\frac{1}{2}$ of Section 29 is only 151' from the east $\frac{1}{4}$ section line and 312' from the north $\frac{1}{4}$ section line. Your granting of an exception to Rule C-3 to allow us to locate the well as proposed is appreciated.

Sincerely,

Ellen Flannelly
Ellen Flannelly
Senior Landman

RECEIVED

DEC 9 1982

DIVISION OF
OIL, GAS & MINING

EF/ggd
encls.

12-9-82 -
Requested 660' statement
as per telecom with
receptionist. Said
she would have
Ellen return my
call.

Yvonne
Ellen said she would
send statement
12-9

TEN POINT COMPLIANCE PROGRAM

1-29 Straw Spring Federal

San Juan County, Utah
Township 39 South, Range 24 East
Section 29
Lease No. U-21269

Celeste C. Grynberg
5000 So. Quebec, Ste. 500
Denver, Colorado 80237

1. Geologic Surface Formation

Dakota

2. Estimated Tops of Geologic Markers

Chinle	- 1865'
Dechelly	- 2960'
Hermosa	- 4940'
Upper Ismay	- 5910'
Lower Ismay	- 6050'
Gothic Shale	- 6100'
Desert Creek	- 6140'
Chimney Rock	- 6250'
TD	- 6300'

3. Estimated Depths of Anticipated Oil, Gas, or Other Minerals

Oil: 5500' - 6300'

4. Proposed Casing Program

<u>Hole Size</u>	<u>Casing Size</u>	<u>Interval</u>	<u>Grade</u>	<u>Wt./Ft.</u>	<u>New or Used</u>
18"	13-3/8"	0- 100	J-55	68.0 lb.	New
12-1/4"	9-5/8"	100-1915	N-80	43.5 lb.	New
7-7/8"	4-1/2"	1915-TD	J-55	10.5 lb.	New

5. Pressure Control

Exhibit A is a schematic diagram of the blowout preventor equipment. The BOP's will be hydraulically tested to the full working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole.

6. Type and Characteristic of Proposed Circulating Mediums

Adequate stocks of sorptive agents will be on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires. Circulating mediums will be as follows:

<u>Interval</u>	<u>Type</u>	<u>Wt. #/Gal.</u>	<u>Visc.-Sec./Qt.</u>	<u>Fluid Loss-CC</u>
0 - 500'	Spud Mud	-	-	-
500' - 2400'	Spud Mud	-	-	-
2400' - TD	Fresh Water	10# or Less	30 - 36	10 CC or Less

7. Auxiliary Equipmnet

The following auxiliary equipment will be used:

Kelly cock, a float at the bit, pit level indicators and flow sensor equipment, sub with full-opening valve on floor, drill pipe connection.

8. Testing, Logging and Coring Program

- A. DST's as warranted.
- B. The logging program will consist of a CNL-FDC and Dual Lateral Log-MSFL.
- C. No coring is anticipated.
- D. Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted.

9. Anticipated Abnormal Pressures or Temperatures

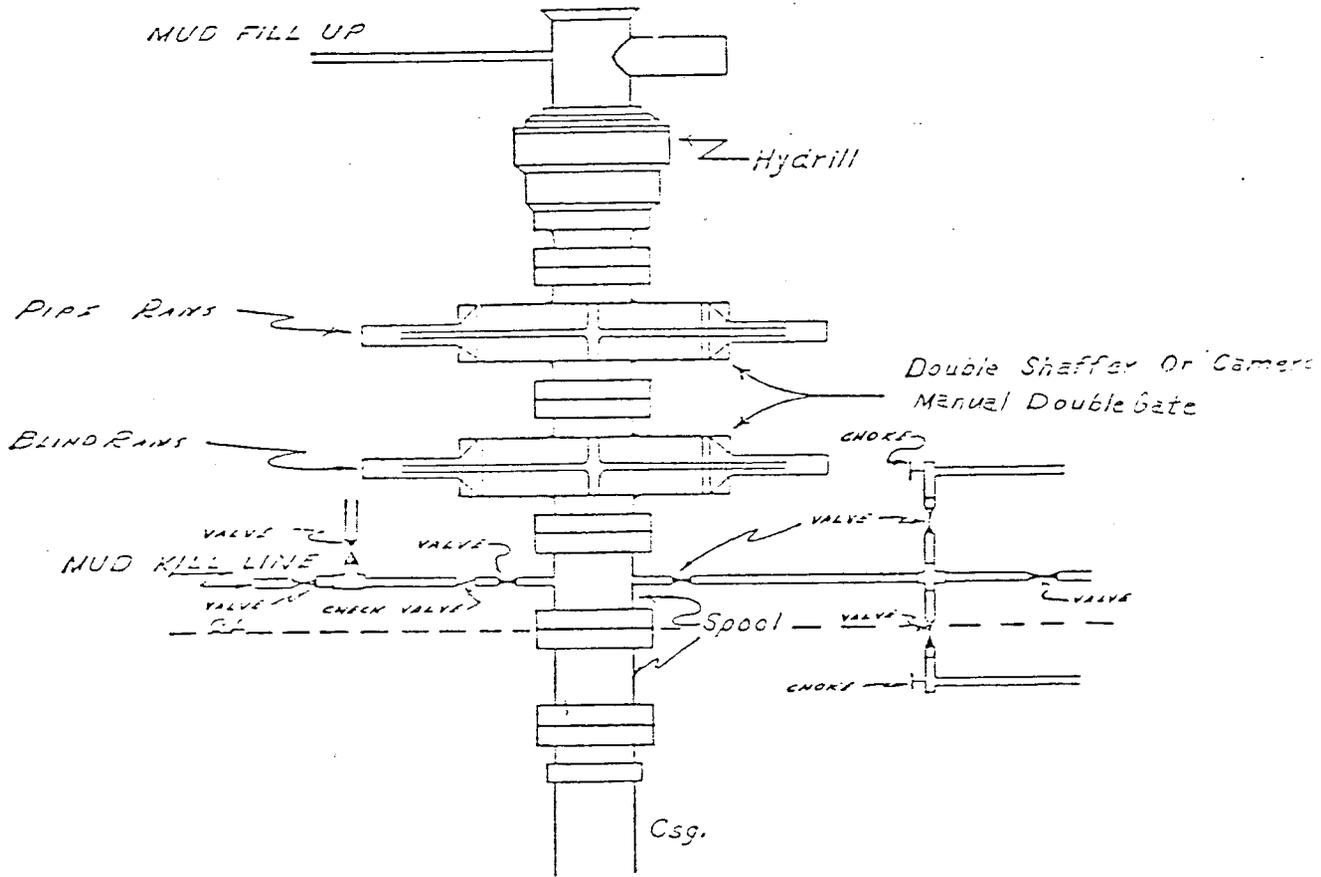
No abnormal pressure or temperatures are anticipated.

10. Start Date and Duration

The well will be spudded around December 31, 1982 or as soon as permit and surface program are approved by the BIA and MMS. Drilling is expected to take about 25 days, with additional work dependent on results.

EXHIBIT "A"

Blowout Preventer Diagram



API series 900

NOTE:

Manual controls with closing unit no less than 75' from well head.
Remote controls on rig floor.

MULTI-POINT SURFACE USE AND OPERATING PLAN

San Juan County, Utah
Township 39 South, Range 24 East
Section 29
Lease No. U-21269

Celeste C. Grynberg
5000 So. Quebec, Ste. 500
Denver, Colorado 80237
#1-29 Straw Spring

1. Existing Roads

A. Proposed Well Site

The proposed well site is shown in relation to road and towns in Exhibit A.

B. Route from Reference Points

Access to the site can be achieved via existing dirt road running about 1/8th mile south of the north section line from State Highway 262, approximately 1-1/2 miles to the west. Highway 262 joins U.S. 163 about 13 miles west of the site, which continues north for 15 miles to Blanding and another 25 miles to Monticello.

C. Access Road

The proposed new access road leading from existing dirt road to the well site is shown in Exhibit B.

D. Roads Within Three-Mile Radius of Exploratory Well

Existing roads within a three-mile radius of the drillsite are shown in Exhibit A. Highway 262 is a medium duty paved road. Unimproved dirt roads run from Highway 262 to within 900' of the site.

E. Plans for Improvement or Maintenance

The existing dirt road from Highway 262 to Section 29 will be widened to 20' total disturbed width and bladed. No improvement is needed on Highway 262 which is commonly used by oilfield traffic.

2. Planned Access Road

A temporary access road will be constructed, as shown in Exhibit B, from the existing dirt road to the drillsite. The road will be about 1250' feet long. None of the new access road will be off lease. The dirt contractor will be given a copy of the Surface Use Plan and any additional BIA stipulations prior to any work.

(1) Width

The running surface of the planned access road will be 18' wide. New construction will be limited to a total disturbed width of 20'. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

(2) Maximum Grade

The maximum grade will be about 5%.

(3) Turnouts

Turnouts will be constructed along the existing dirt road at intervals as necessary.

(4) Drainage Design

The new portion of the access route will be bladed, with drainage on both sides.

(5) Culverts

No culverts are needed along the access road.

(6) Surfacing Material

Surfacing material, if needed, will be native soil.

(7) Gates and Fences

No gates, cattleguards, or fence cuts are required.

(8) Flagging

The centerline of the new access road has been staked.

3. Existing Wells

All wells within a two-mile radius of the proposed well are shown in Exhibit A.

4. Location of Facilities

A. Existing Facilities

Lessee/operator has no existing facilities within a one-mile radius of the proposed site.

B. New Facilities in Event of Production

(1) Proposed Location

Production facilities, if needed, will be located on solid ground of cut area of drill pad, as shown in Exhibit C. Flow lines will be on the well and battery site and will be buried if required.

(2) Area

Facilities will require an area of 300' X 90'.

(3) Construction Methods and Materials

No special materials for the battery site and pad are needed. The surface at the drillsite is suitable for construction.

(4) Protective Measures

The reserve pit will be fenced and flagged to protect wildlife and livestock. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as drilling is completed. The fence will be kept in good repair while the pit is drying.

C. Plan for Rehabilitation

The reserve pit and that portion of the location and access road no longer needed for operations and maintenance will be restored as nearly as practical to their original condition. Rehabilitation will be done in the manner described under number 10. (below). Enough topsoil will be retained to reclaim the remainder of the location at a future date. The remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

5. Water Supply

A. Source

Water will be obtained from a local water hauler who will utilize the San Juan River and/or commercial wells.

B. Method of Transporting

Water will be transported by truck over existing roads.

C. Water Wells

No new water wells will be drilled on the site.

6. Source of Construction Materials

A. Materials

No special materials are needed for the drill pad. In the event materials not available on the site should be needed for the road or pad, they will be obtained from local commercial sources.

B. Soil Stockpiles

The top six inches of soil material will be removed from the location and stockpiled. Topsoil along the access road will be reserved in place.

7. Methods for Handling Waste Disposal

(1) Cuttings

Drill cuttings not retained for evaluation will be placed in reserve pit and covered. Reserve and trash pit locations are shown in Exhibit C.

(2) Drilling Fluids

Drilling fluids will be contained in mud tanks or in the reserve pit.

(3) Produced Fluids

Produced water will temporarily be placed in the reserve pit. Permanent disposal of produced water will be in accordance with NTL - 2B. Any fluids produced during drilling test or while making production test will be collected in test tanks and trucked from the location. Any spills of oil, gas, salt water, or other noxious fluids will be cleaned up and removed.

(4) Sewage

Portable chemical facilities will be provided for human waste (see Exhibit C for location) with contents disposed of per county regulations.

(5) Garbage and Other Waste Material

Garbage, waste, salts, and other chemicals produced during drilling or testing will be handled in trash/burn pit shown in Exhibit C. The trash pit will be constructed near the reserve pit, at least 6' down into solid undisturbed material and with steep sides. The pit will be totally enclosed with fine mesh wire before the rig moves onto location. The pit will be backfilled at the conclusion of operations.

(6) Clean Up of Well Site

After drilling operations are concluded and the rig moved off location, all materials will be cleaned up and no trash material will be left on location. Such material will be burned or disposed of in the trash pit. Nonburnable debris will be compacted and buried under a minimum of 2' of compacted soil. Any dangerous open pit will be fenced until such time as the pit is leveled.

8. Ancillary Facilities

No camps or airstrips will be constructed. A portable trailer will be parked on the drilling location in the area shown in Exhibit C.

9. Well Site Layout

The location of the well site as staked by the surveyor and the orientation of the drill pad are shown in Exhibit D.

(1) Cross Section of Pad

A cross section cut and fill diagram of the drill pad appears in Exhibit E.

(2) & (3) All necessary facilities to be located on the drill pad are shown in Exhibit E.

(4) Pit Lining

The reserve pit will be lined with suitable material such as plastic or bentonite.

10. Plans for Restoration of Surface

(1) Contouring and Waste Disposal

The reserve pit will be fenced on the fourth side and allowed to dry completely before backfilling, recontouring, and reseeding. Rat and mouse holes will be backfilled. All trash materials will be segregated with respect to combustibility and then burned or buried. Waste and burn pits will be backfilled. In the event of a dry hole, all disturbed areas will be bladed to blend as nearly as possible with natural topography. Any berms made will be removed and all cuts filled. The disturbed area will be scarified with the contour to a depth of 6" on the new access road. Water bars will be constructed as prescribed.

(2) Revegetation and Rehabilitation

Revegetation and rehabilitation will be done in accordance with BIA stipulations, attached.

(3) Pits

Three sides of the reserve pit will be fenced during drilling operations. Prior to rig removal, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped. The fencing will be maintained until leveling and clean-up take place.

(4) Oil

If any oil is on the pits and is not immediately removed after operations cease, the pits containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.

(5) Timetable

Rehabilitation operations will begin immediately after the drilling rig is removed.

11. Other Information

(1) Area Description

The topography of the location is bench on mesa. The soil is shallow and sandy

with some exposed sandstone and chert. Geologic features in the area include bench, cliffs, and a wash area. Vegetation is typical of the area and includes scattered cedar and sparse grass. Fauna include small rodents and birds native to the area.

(2) Surface Use

Surface of the access road and drillsite is owned by the Navajo Tribe and managed by the Bureau of Indian Affairs. A grazing permit has been issued to Joe Beletso, who lives on site.

(3) Proximity of Other Features

Water: The San Juan River, flowing east/west, is about 7-8 miles south of drillsite.

Occupied Dwelling: Joe Beletso and family occupy a dwelling, shown in Exhibit B, south of the quarter section marker and just west of the section line in Section 30.

Cultural/Archaeological Sites: A cultural resource inventory was conducted on the location and access road. The report is attached. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the BIA Archeologist will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.

12. Operator's Representative

The field representative responsible for assuring compliance with the approved surface plan is:

Ellen Flannelly
Jack Grynberg and Associates
5000 So. Quebec, Ste. 500
Denver, Colorado 80237
(303) 850-7490

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Celeste C. Grynberg and her contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

CELESTE C. GRYNBERG

11-30-82
Date

Ellen Flannelly
Ellen Flannelly, Attorney-in-Fact

Surface Rehabilitation Stipulations

Company Grynberg
Well # 1-29

Date: 11-19-82

	lbs / Acre / PLS
<input type="checkbox"/> Seed mix # 6	
Crested wheatgrass	2
Slender wheatgrass	1
Smooth brome	2
Orchardgrass	1
Yellow sweetclover	1
<input type="checkbox"/> Seed mix # 7	
Crested wheatgrass	2
Western wheatgrass	2
Sand dropseed	1
Yellow sweetclover	1
<input type="checkbox"/> Seed mix # 8	
Alkali Sacaton	1
Sand dropseed	1
Indian ricegrass	2
Four-wing saltbush	1
<input type="checkbox"/> Seed mix <u># 9</u>	
Indian ricegrass	2
Galleta	1
Needle-n-thread	1
Four-wing saltbush	1
Cliffrose	1

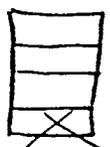
Well # 29-12

cont.

⊠ Compacted areas will be plowed or ripped to a depth of 4 to 6 inches before reseeding. Seed will be drilled to a depth of $\frac{1}{2}$ to $\frac{3}{4}$ inches or broadcast and followed by a drag or packer. If broadcast, 150% of the recommended seeding rate will be used.

⊠ Upon abandonment, the pad will be fenced with a standard five-strand barb wire fence, or equivalent and will have no gates. The fence will be maintained for two years to allow for seeding establishment and will then be removed.

⊠ All above ground permanent structures and equipment will be painted a non-glare color that simulates the natural color of the site, as follows:

	Brown	Fed Std.	595a-30318
	Green		595a-34127
	Gray		595a-36357
	Sand		595a-30277

⊠ other:
A diversion will be constructed around the north end of the location

EXHIBIT C: Production Facilities

#1-29 Straw Spring

Celeste C. Grynberg

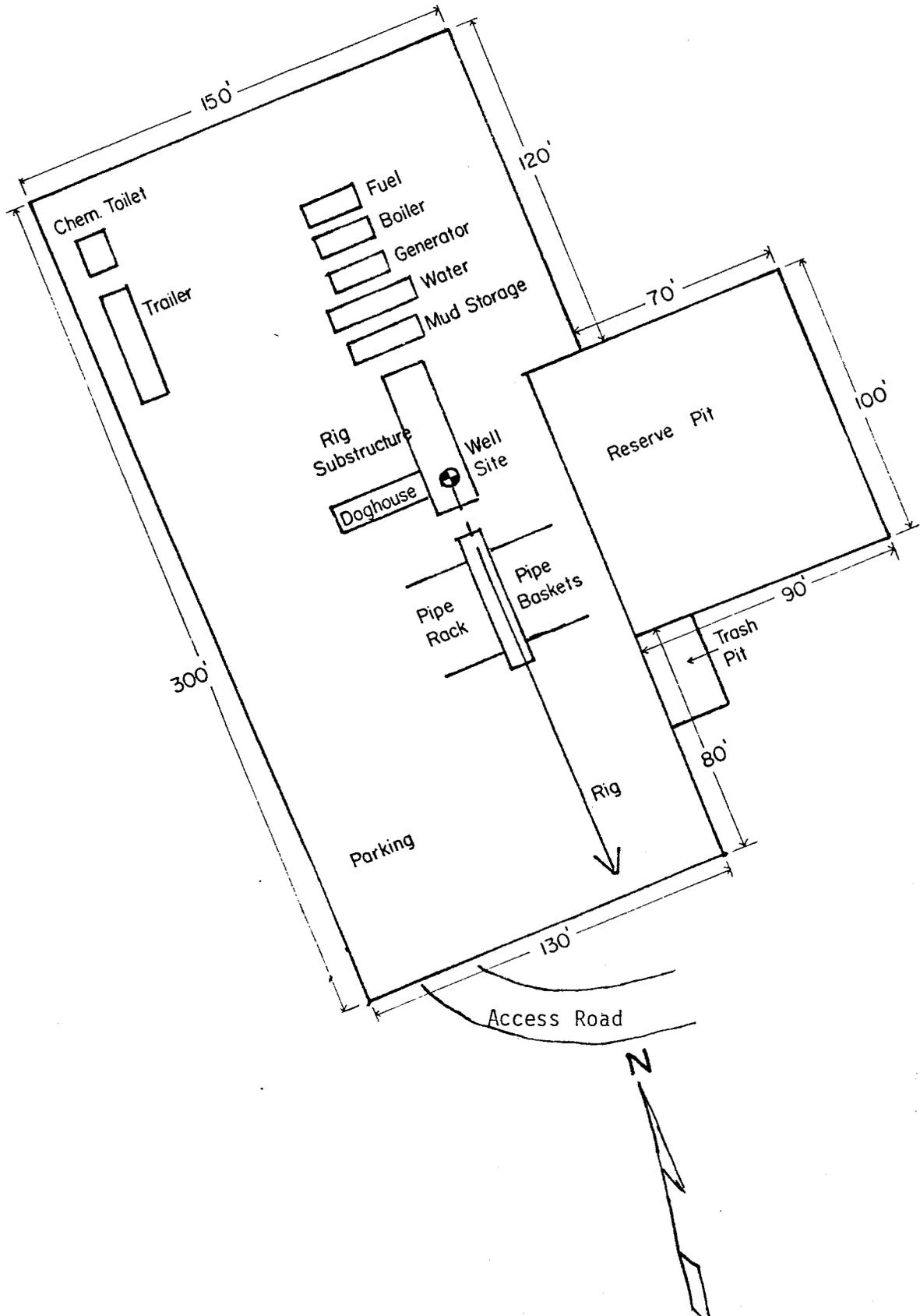
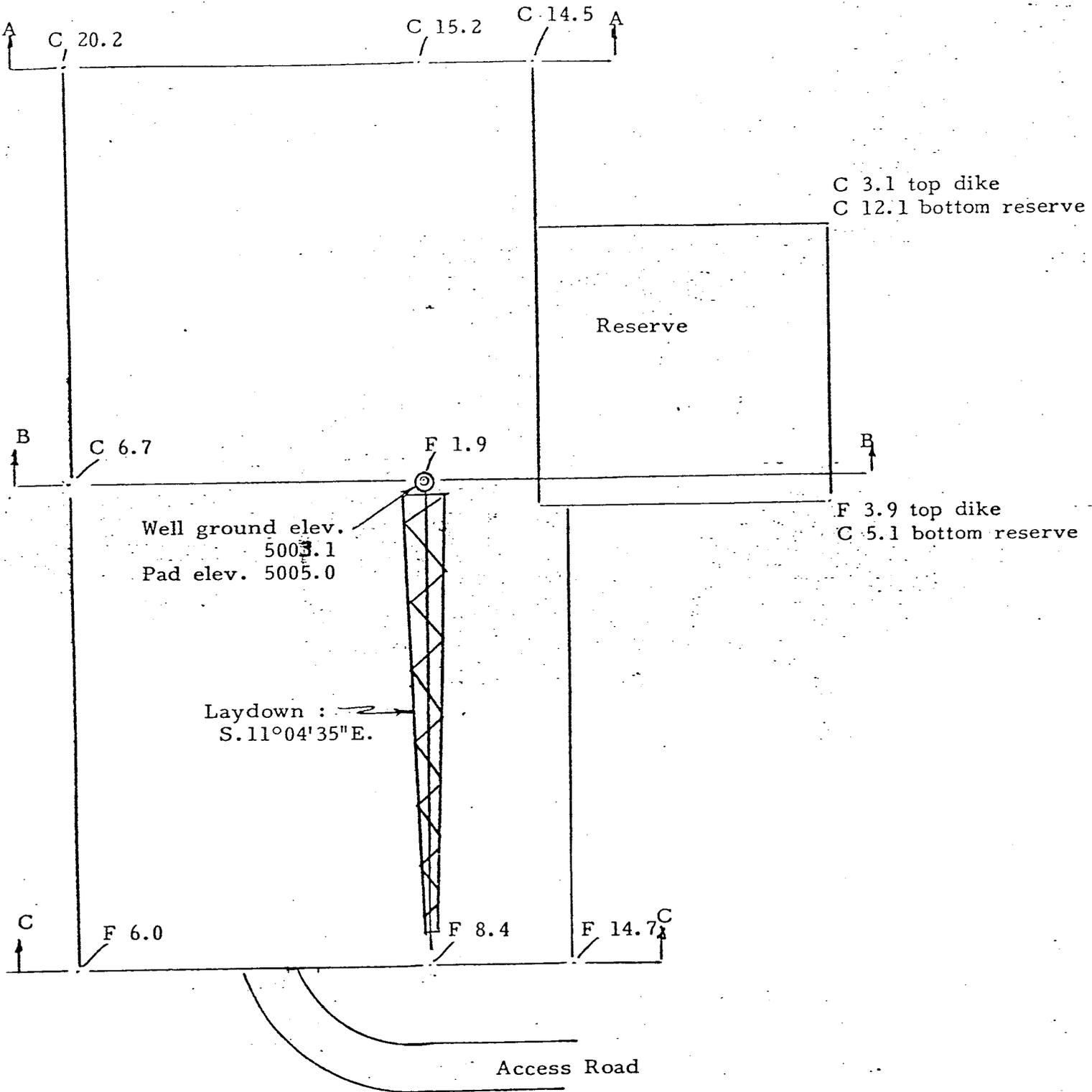


EXHIBIT E - WELL PAD FACILITIES AND ELEVATIONS

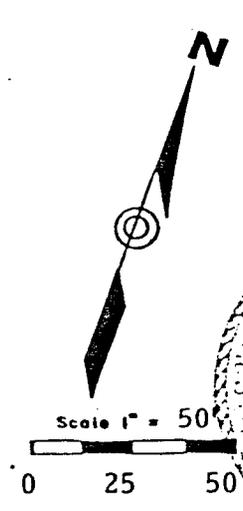
#1-29 Straw Spring

p. 1 Of 2



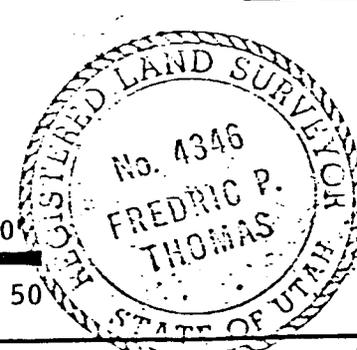
KNOW ALL MEN BY THESE PRESENTS: THAT I, FREDRIC P. THOMAS do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the same is true and correct to the best of my knowledge and belief.

Fredric P. Thomas
 FREDRIC P. THOMAS
 Reg. L.S. and P.E.
 Colo. Reg. No. 6728
 Utah reg. no. 4346

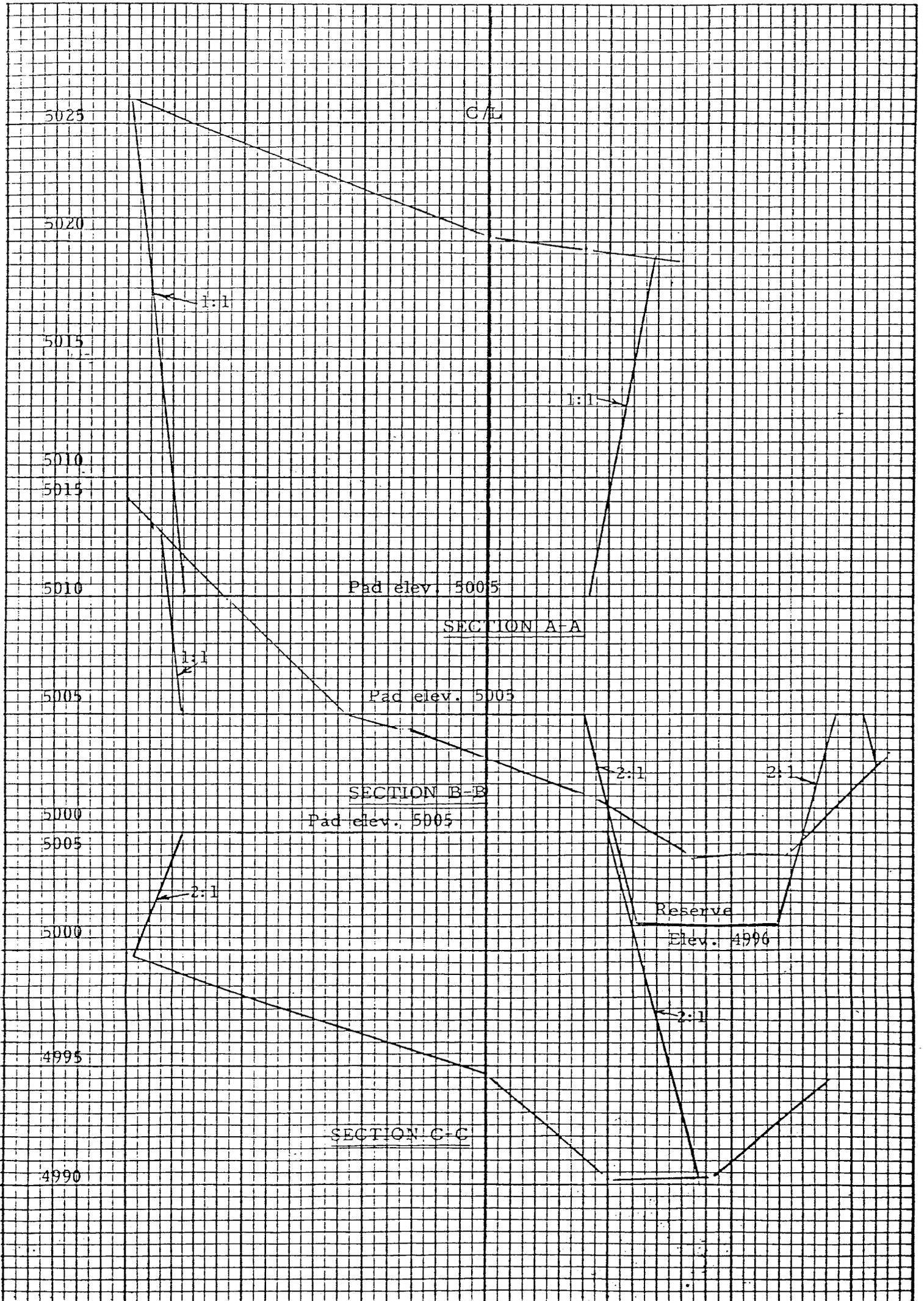


THOMAS Engineering Inc.

25 N. Linden
 Cortez, Colorado
 565-4496



#1-29 Straw Spring



OPERATOR CELESTE C. GAYNBERG DATE 12-8-82

WELL NAME STRAW SPRING FED 1-29

SEC SW NW 29 T 39S R 24E COUNTY SAN JUAN

43-037-30861
API NUMBER

FED
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

NO WELLS WITHIN 1000'

RJF ✓

APPROVAL LETTER:

SPACING: A-3 _____ UNIT c-3-a _____ CAUSE NO. & DATE

c-3-b c-3-c

SPECIAL LANGUAGE:

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *FED*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

c-3-c

OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

POTASH

Project No. 180-8

Federal Antiquities Permit
No. 82-AZ/UT/NM-089
No. 1981-14

An Archaeological Survey of
Two Well Pads and Access Roads On
McCracken Mesa in San Juan
County, Utah

for
Jack Grynberg and Associates

locations

Primary Access Road Into Section 29, T39S, R24E
Revised Straw Spring No. 1 Well Pad Access Road
Straw Spring No. 2 Well Pad and Access Road
Straw Spring No. 3 Well Pad and Access Road

by
Kurt F. Anschuetz
Supervisory Archaeologist

submitted by
Margaret A. Powers
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series No. 612
San Juan County Archaeological Research Center and Library
Farmington, New Mexico

December 10, 1982

ABSTRACT

On November 29, 1982, the Division of Conservation Archaeology of the San Juan County Museum Association conducted an archaeological survey of the Straw Spring Nos. 2 and 3 well pads and their access roads for Jack Grynberg and Associates of Denver, Colorado. In addition, the access road for the previously surveyed Straw Spring No. 1 well pad (formerly Superior Oil Company No. 29-1) was moved and the new right-of-way was examined. The survey area is located on the southeast arm of McCracken Mesa in San Juan County, Utah and is under the jurisdiction of the Bureau of Indian Affairs and the Navajo Nation.

No archaeological remains were found directly in the revised access road to Straw Spring No. 1, although the road passes immediately north of Site 42-SA-11670. Two isolated loci were found along its access road.

Five IL's were recorded in the Straw Spring No. 2 well pad. No archaeological remains were found in its access road. Six IL's were identified along the proposed access road right-of-way connecting the survey area with Utah State Highway 262. No archaeological sites were found within any of the zones of direct impact. It is recommended that archaeological clearance be given to allow Jack Grynberg and Associates to proceed with their proposed drilling operations given the following provision. Because of the extremely high archaeological site density on McCracken Mesa, Jack Grynberg and Associates must insure that the proposed construction and drilling operations be restricted to the archaeologically cleared areas. Particular care must be taken in the construction of the access road into the Straw Spring No. 1 well pad, and the Division of Conservation Archaeology advises that an archaeologist be present to monitor the construction activities adjacent to the 42-SA-11660 site boundaries. Jack Grynberg and Associates should also restrict future traffic to the roads, and not drive over or park on areas outside the well pad or 20 foot access road corridor.

INTRODUCTION

On November 29, 1982, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Jack Grynberg and Associates of Denver, Colorado. Ellen Flannelly of Jack Grynberg and Associates requested the survey on November 24, 1982. Margaret A. Powers administered the project for DCA; Ellen Flannelly administered the project for Jack Grynberg and Associates.

In recognition of the limited, nonrenewable nature of archaeological remains, federal and state governments have enacted legislation that is designed to conserve and protect these resources. The principal federal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources Protection Act of 1979 (PL 96-95).

In addition, the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is governed by the stipulations of Federal Antiquities Permit No. 82-AZ/UT/NM-09 and Navajo Nation No. 1981-14 and is for purposes of compliance with these statutes.

Roger Moore and Kurt Anschuetz, DCA archaeologists, surveyed the project area for cultural remains. Dr. Barry H. Holt, Environmental Quality Office, Bureau of Indian Affairs, and Anthony Klesert, Navajo Nation Cultural Management Program, were notified of the survey schedule prior to beginning fieldwork.

The following persons were present during the field inspection: Ellen Flannelly of Jack Grynberg and Associates; Don Englishman of Minerals Management Service; Randy Cornett of Bureau of Indian Affairs; Virginia Norton of Navajo Lands Administration; Fred Thomas and Rod Grove of Thomas Engineering, Inc.; and Dean McClellan of Perry McDonald.

METHODS

The Straw Spring Nos. 2 and 3 well pads were surveyed by the two archaeologists walking parallel transects 10 meters apart. The corners of the area surveyed for each well pad location were designated with wooden lathes marked with indelible ink. The access routes were surveyed by one archaeologist walking a single zig zag transect across the width of the proposed right-of-ways. A buffer zone 25 feet wide was included in the well pad surveys. A 40 foot wide buffer was added to each

side of the access road right-of-ways at the request of Dean McClellan, the contractor from Perry McDonald, in the advent reroutes from the proposed center line become necessary during the construction of new roads or improvements of existing roads. Segments of roads not situated along existing bladed roads or clearly defined two track roads were marked with orange painted lathing.

The archaeologists recorded all cultural remains within the zones of direct impact and the adjoining buffers. Because none of the archaeological resources possessed sufficient information potential to warrant site status, they were documented as isolated loci (IL). Pertinent environmental data, including landform and vegetation, were also recorded.

In addition to field inspection, the archaeologists conducted a search of the records at the Division of Conservation Archaeology to determine if any sites had been previously recorded in the project area. (The most recent listings of the National Register of Historic Places were consulted to identify any sites that are listed on or nominated for the register.)

Figure 1 is an overall project area map. Figure 2 shows the relationship between the well pads, their access roads, an existing seismic trail and the pertinent archaeological remains.

PROJECT AREA

Primary Access Road into Section 29, T39S, R24E From Utah State Highway 262

Legal Description: T39S, R23E, Section 25, N $\frac{1}{2}$ N $\frac{1}{2}$
 T39S, R24E, Section 30, N $\frac{1}{2}$ N $\frac{1}{2}$
 T39S, R24E, Section 29, W $\frac{1}{2}$ NW $\frac{1}{2}$
 S.L.M., San Juan County, Utah

UTM Coordinates: Zone 12, 4137240N, 646825E - Beginning of Road
 Zone 12, 4136925N, 649525E - Southwest end of Road

Map Source: U.S.G.S. 15' Montezuma Creek, Utah, 1962

Land Jurisdiction: Bureau of Indian Affairs, Navajo Nation

Project Area: 9,875' x 20' (access road)

Surveyed Area: 9,875' x 100' (access road with buffer)
 22.7 Acres

Description: The proposed access road into the survey area is an existing bladed dirt road which begins on the west side of Utah State Highway 262, approximately 3.2 miles south of the intersection of the highway and the road leading to Hatch Trading Post. The bladed road heads east for 1.7 miles and descends from the crest of McCracken Mesa to the bottom of an unnamed

north-south tributary canyon of Black Rock Canyon. Much of the first half of the road is cut into aeolian deposits. In low areas, which collect runoff and have a tendency to form standing pools of water, unimproved two track dirt drive arounds are common. At the approximate mid point of this segment, the road crosses a shallow drainage and continues along the south edge of a side canyon as the road drops down into the major tributary canyon. Sandstone outcrops are common along this segment.

In the bottom of the north-south canyon, the east-west road intersects a north-south road. The north and east roads are simple, unimproved two track trails. The bladed road turns south and parallels the west side of a 10 foot deep arroyo for 900 feet, at which point it joins the beginning of the revised access road for the Straw Spring No. 1 well pad. The bladed road continues south to the residence of the local grazing rights leaseholder.

The major plant species identified along the access route include cheat grass (Bromus tectorum), juniper (Juniperus sp.), dropseed grass (Sporobolus aeroides), four-wing saltbush (Atriplex canescens), galleta grass (Hilaria jamesii), Indian rice grass (Oryzopsis hymenoides), prickly pear (Opuntia sp.), rabbitbrush (Chrysothamnus nauseosus), Russian thistle (Salsola kali), sagebrush (Artemisia tridentata), snakeweed (Gutierrezia sarothrae) and narrowleaf yucca (Yucca angustissima). In general, as the road drops from the crest of McCracken Mesa to the canyon bottom, the vegetation changes from a juniper/shrub/grassland plant association to a sparse shrub/grassland in which disturbed habitat plant species, such as cheat grass and snake-weed, predominate.

Cultural Remains: No archaeological sites were found along the primary access road into Section 29, T39S, R24E. Six isolated loci (IL) were encountered but the survey documentation is believed to exhaust the information potential of these remains. The locations and descriptions of the IL's are presented below.

- IL #1 UTM Coordinates: Zone 12, 4137140N, 647200E
One clapboard and indented corrugated sherd
40 feet south of the existing road.
- IL #2 UTM Coordinates: Zone 12, 4137160N, 647200E
One Brushy Basin chert secondary flake with no
evident retouching or utilization. The arti-
fact is 30 feet north of the existing road.
- IL #3 UTM Coordinates: Zone 12, 4137180N, 647340E
Two unidentified whiteware body sherds 40 feet
north of the existing road.
- IL #4 UTM Coordinates: Zone 12, 4137180N, 647390E
One mineral painted, B/W bowl body sherd with
wide, solid line decorative motifs and fine,
crushed igneous rock temper, one mottled green

chert secondary flake with no evident retouching or utilization, and one silicified wood biface fragment. The artifacts were found on the side of a low dunal knoll, approximately 45 feet north of the existing road.

IL #5 UTM Coordinates: Zone 12, 4137150N, 648640E
 One rock cairn made of four courses of sandstone slabs. The slabs range in size from 3 x 12 x 16 inches to 4 x 33 x 39 inches, and the cairn stands 18 inches high. Seven smaller sandstone slabs were found adjacent to the northeast side of the cairn; however, their purpose is unknown. The cairn is 3 feet south of the existing road.

IL #6 UTM Coordinates: Zone 12, 4137150N, 648740E
 One collapsed cairn consisting of a pile of 12 unshaped sandstone blocks with a heavy patina. The blocks range in size from 4 x 4 x 7 inches to 4 x 12 x 16 inches. The IL is on the south edge of the existing road cut.

Recommendations: The Division of Conservation Archaeology recommends that Jack Grynberg and Associates be granted archaeological clearance to proceed with the improvement of the primary access road into Section 29, T39S, R24E. The information potential of the six IL's within the surveyed areas has been exhausted and their loss due to the proposed construction activities has been mitigated against. However, given the high archaeological site density on McCracken Mesa, it is strongly advised that the actual construction activities be strictly limited to the corridor surveyed by the archaeologists and that subsequent traffic be restricted to the improved road. That is, Jack Grynberg and Associates should insure that construction and drilling crews do not use areas adjacent to the road for parking or for turning their vehicles.

Revised Straw Spring No. 1 Well Pad Access Road

Legal Description: T39S, R24E, Section 29, NW¼
 S.L.M., San Juan County, Utah

UTM Coordinates: Zone 12, 4136925N, 649525E West end
 Zone 12, 4137050N, 649800E East end

Map Source: U.S.G.S. 15' Montezuma Creek, Utah, 1962

Land Jurisdiction: Bureau of Indian Affairs/Navajo Nation

Project Area: 1,400' x 20' (access road)

Surveyed Area: 1,400' x 100' (access road with buffer)
 3.2 Acres

Description: The Straw Spring No. 1 well pad and access road were originally surveyed by the Division of Conservation Archaeology for Superior Oil Company. The Straw Spring No. 1 was formerly designated as Superior Oil Well Pad 29-1. The results of the original archaeological survey are reported by Anschuetz (1982). The proposed access road was moved at the request of the local grazing rights lease holder, who expressed concern about the noise which would have resulted by having the access road so close to the family residence.

The revised access road right-of-way begins at the point where the bladed dirt road, which provides access into Section 29, T39S, R24E, approaches a low sandy rise, approximately 900 feet south of the intersection of the bladed road with two unimproved dirt roads. The access road heads east-southeast for 500 to 550 feet along a narrow shelf between a 10 foot deep arroyo and the north boundary of site 42-SA-11670 (see below for the synoptic description of the site). The shelf varies in width from approximately 25 to 60 feet. The road crosses the arroyo at a south bend in the drainage and continues in an east-southeast direction for 300 feet to the nose of a low, north-south ridge made of an outcrop of light green chert deposits. The road then turns north along the west edge of a shallow draw to the Straw Spring No. 1 well pad, a distance of 550 feet. Because the access road does not follow an existing two track trail, orange painted lathing was used to mark the center line.

The plants identified along the length of the revised access road include cheat grass (Bromus tectorum), sagebrush (Artemisia tridentata), snakeweed (Gutierrezia sarothrae), fourwing saltbush (Atriplex canescans), Russian thistle (Salsola kali) and drop-seed grass (Sporobolus aeroides). The disturbed habitat plant species, such as snakeweed and cheat grass, dominate the ground cover.

Cultural Remains: No archaeological sites or isolated loci were encountered directly within the proposed 20 foot wide road corridor. However, one site, 42-SA-11670, is located within the south buffer zone. The site is given a synoptic description below because of its proximity to the area of proposed direct impact. The site will be given comprehensive description and evaluation in the final report for the intensive reconnaissance survey DCA recently conducted on the northwest, northeast and southeast quarters of Section 29, T39S, R24E for Superior Oil Company (Division of Conservation Archaeology, Contributions to Anthropology Series, No. 600).

Site 42-SA-11670 is located on a low sandy rise on the dissected alluvial bench on the west side of the canyon bottom. The canyon drainage borders the site to the north and east. The site consists of a small, intact Pueblo I to Pueblo II habitation roomblock with three distinct and dense midden areas on the crest and upper slopes of the rise. In addition, a possible outlying structure, which is largely destroyed by an old bladed road, was recorded at the northwest end of the site area. The

maximum dimensions of the site, including artifacts which have been washed downslope, are 425 feet northwest-southeast x 295 feet northeast-southwest.

The roomblock is C-shaped and measures 40 feet east-west x 23 feet north-south and may be composed of six rooms. The structure opens to the south, and a depression measuring 23 feet in diameter and 13 inches deep is in the plaza area. The depression may represent the location of a kiva. The midden areas, which contain hundreds of utility and decorated ceramics, chipped stone lithics, and pieces of fire-cracked sandstone, border the southwest, southeast and east sides of the roomblock. Twenty-two pieces of groundstone, including two-hand manos, slab and trough metates, and miscellaneous shaped slabs, were recorded. Two possible tchamajilla fragments were also observed. The major identified ceramic types are Piedra B/W, Cortez B/W, Deadman's B/W, clapboard corrugated, indented corrugated and Mancos B/W. The indented corrugated wares and the Mancos B/W sherds dominate the utility and decorated ceramic assemblages, respectively. The chipped stone lithics, are predominately secondary reduction debris, although primary and tertiary flakes are also common. There is some evidence for the heat treating of raw materials. Chipped stone tools are limited to a small number of retouched flakes, some of which were evidently used as choppers and scrapers.

The possible outlying structural feature consists of six tabular, unshaped sandstone blocks, and approximately 45 to 55 chipped stone lithics and sherds. The feature is exposed in an old road cut and measures 60 feet north-south x 40 feet east-west. Due to the severe disturbance of the manifestation, it is impossible to determine its function or shape.

The site boundaries are clearly marked with blue painted lathing. The boundaries include the scatter of artifacts which has been carried downslope by erosion. These cultural remains have very little intactness unlike the main structural and midden areas on the crest of the rise. Furthermore, artifact densities are very low. No cultural debris was observed eroding out of the arroyo profile below the site.

Site 42-SA-11670 is significant, because it is one of the largest and best preserved habitation loci in the immediate vicinity. There may be up to 6.5 feet of fill in the area of the roomblock and associated depression. Depths of 8 to 20 inches are probably common in the three midden areas. The site is very important in the study of Pueblo I and Pueblo II settlement and land use of McCracken Mesa.

Recommendations: Although it is unfortunate that the revised access road passes so close to site 42-SA-11670, the request of the local grazing lease owner to keep access roads away from his residence and the extremely high site densities in the northeast, southeast, and northwest quarters of Section 29, T39S, R24E, make alternative avenues impossible. The Division of Conservation Archaeology recommends that Jack Grynberg and Associates

be allowed to develop the revised access road for the Straw Spring No. 1 well pad provided that the road is clearly restricted to the bench north and east of the site boundaries and that an archaeologist is present to monitor the construction of the road. Equally important, Jack Grynberg and Associates must insure that all traffic be limited to the prepared road and that the employees associated with the road construction and drilling operations do not make unauthorized collections from this or any of the other archaeological sites in the surrounding area.

Straw Spring No. 2 Well Pad and Access Road

Legal Description: T39S, R24E, Section 29, NE $\frac{1}{4}$ SW $\frac{1}{4}$
Section 29, 1980'FSL, 1980'FWL
S.L.M., San Juan County, Utah

UTM Coordinates: Zone 12, 4136525N, 650025E (Well Pad Center)
Zone 12, 4136875N, 649775E (Beginning of Access Road)
Zone 12, 4136825N, 649840E (Junction of First segment of Access Road with Seismic Road)
Zone 12, 4136650N, 649875E (Junction of second segment of Access Road with Seismic Road)
Zone 12, 4136525N, 650025E (End of Access Road at Well Pad)

Map Source: U.S.G.S. 15' Montezuma Creek, Utah 1962

Land Jurisdiction: Bureau of Indian Affairs/Navajo Nation

Project Area: 350' x 350' (well pad)
1,650' x 20' (access road)

Surveyed Area: 400' x 400' (well pad with buffer)
1,050' x 100' (access road with buffer)

Description: The Straw Spring No. 2 well pad is on the north facing slope of a short, wide east-west spur formation which forms the south side of a minor rincon. The well pad extends from the edge of the spur crest down to the bottom of the rincon. The pad area is dissected by numerous channelized washes which flow to the northwest. The major drainage for the rincon borders the north side of the well pad and flows to the west-southwest. An outcrop of poor quality light green chert is exposed in the bottom of the wash. Naturally occurring angular debris from the outcrop is scattered across the northwest corner of the pad.

The proposed access route begins at the southeast edge of the Straw Spring No. 1 access road at the point in which the latter road rounds the nose of a low spur formation and turns north along a shallow drainage. The first segment of the Straw Spring No. 2 access road, which is marked with orange painted lathing, heads 500 meters southeast through a shallow draw to a recent seismic road. The seismic line and its access road were

surveyed by Gilpin and Anderson (1982) for the Navajo Nation Cultural Management Program. No cultural remains were found to preclude the use of the seismic line access road as part of the Straw Spring No. 2 access route. The well pad road follows the seismic trail south for 650 feet as it climbs a slope to the crest of a low, southeast-northwest ridge. The proposed route then turns southeast at Station 228 of the seismic line to follow an existing two track dirt road which leads directly to the west-central portion of the drill pad.

The major plant species identified within the Straw Spring No. 2 well pad and its access road are snakeweed (Gutierrezia sarothrae), sagebrush (Artemisia tridentata), four-wing saltbush (Atriplex canescens), Indian rice grass (Oryzopsis hymenoides), cheat grass (Bromus tectorum), blackbrush (Coleogyne ramosissima), juniper (Juniperus sp.) prickly pear (Opuntia sp.), galleta grass (Hilaria jamesii), and shadscale (Atriplex confertifolia). Ground cover in the well pad is moderately dense. The plants along the first segment of the access road are dominated by disturbed habitat species.

Cultural Remains: No archaeological sites were found within the proposed well pad or along its access road. Two isolated loci (IL) were found in the surveyed corridor for the access road segment immediately west of the pad. The survey documentation of these remains is believed to exhaust their information potential. The locations and descriptions of the IL's are presented below:

IL #7 UTM Coordinates: Zone 12, 4136575N, 649950E
One white secondary reduction flake without evident retouching or utilization in the existing two track dirt road, approximately 13 feet from the west edge of the well pad.

IL #8 UTM Coordinates: Zone 12, 4136625N, 649800E
Two light grey chert primary reduction flakes in the existing two track dirt road, approximately 50 feet from the intersection of the road with the recent seismic trail.

Recommendations: The Division of Conservation Archaeology recommends that Jack Grynberg and Associates be granted archaeological clearance to proceed with the construction of the Straw Spring No. 2 well pad and access road. The information potential of the two IL's within the surveyed areas has been exhausted and their loss as a result of the proposed land altering activities has been mitigated against. However, given the great density of archaeological sites in the general vicinity of well pad, it is advised that the construction activities be strictly limited to the well pad boundaries and the 20 foot access road corridor. Furthermore, Jack Grynberg and Associates should insure that construction and drilling crews do not use the areas adjoining the well pad and access road corridor for parking or for turning their vehicles.

Straw Spring No. 3 Well Pad and Access Road

Legal Description: T39S, R24E, Section 39, W $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$
 Section 39, 660'FSL, 500'FWL
 S.L.M., San Juan County, Utah

UTM Coordinates: Zone 12, 4136125N, 649575E (well pad center)
 Zone 12, 4136225N, 649560E, (North end of Access
 Road)
 Zone 12, 4136125N, 649575E (South end of Access
 Road)

Map Source: U.S.G.S. 15' Montezuma Creek, Utah, 1962

Land Jurisdiction: Bureau of Indian Affairs/Navajo Nation

Project Area: 350' x 350' (well pad)
 150' x 20' (access road)

Surveyed Area: 400' x 400' (well pad with buffer)
 150' x 100' (access road with buffer)
 4 Acres

Description: The proposed Straw Spring No. 3 well pad is in the bottom of the major north-south tributary canyon in the west quarter of Section 29, T39S, R24E. The main canyon drainage, which is an entrenched arroyo measuring 26 feet wide and 4 feet deep cuts across the east edge of the pad. The soil is composed of sandy alluvium. Some naturally occurring chert angular debris is scattered along the east half of the well pad; these materials are believed to have been introduced into the pad through water action.

The access road begins at Station 228 of the recent seismic line surveyed by Navajo Nation Cultural Resources Management Program archaeologists (see Gilpin and Anderson 1982). The proposed access road follows the existing seismic line trail in a southwest direction until it reaches Station 242, a distance of 1,540 feet. The access road then turns south-southeast for 150 feet, at which point it enters the north-central portion of the well pad location.

The major plant species in the well pad and access road right-of-ways are cheat grass (Bromus tectorum), galleta grass (Hilaria jamesii), prickly pear (Opuntia sp.), snakeweed (Gutierrezia sarothrae), Russian thistle (Salsola kali), sagebrush (Artemisia tridentata), and three-awn grass (Aristida sp.). The ground cover reaches a maximum density of 60% in the alluvial sediments characterizing the canyon bottom.

Cultural Remains: No archaeological sites were found within the proposed Straw Spring No. 3 well pad or its access road. Five isolated loci (IL) were recorded within the well pad boundaries. The survey documentation of these remains is believed to have exhausted their information potential. All of the IL's have the following UTM Coordinates: Zone 12, 4136125N, 649575E. Their descriptions are presented below.

- IL # 9 One unidirectional core made of Brushy Basin chert. The artifact is in the southeast quadrant of the pad, approximately 30 feet west of the arroyo edge.
- IL #10 Two light green silty chert secondary reduction flakes and one fine-grain white quartzite secondary reduction flake in the south-central portion of the well pad, approximately 75 feet south of the well pad center stake. None of the artifacts have evident retouching or utilization.
- IL #11 One light grey chert tertiary reduction flake 80 feet south-southeast of the well pad center stake.
- IL #12 One light green chert secondary flake with possible unifacial retouching on one lateral edge. The artifact is 50 feet west-northwest of the well pad center stake.
- IL #13 One B/W mineral painted bowl body sherd with a fine hatchured design and fine sand temper. The sherd was tentatively identified as Mancos B/W. The artifact is in the northwest corner of the well pad.

Recommendations: The Division of Conservation Archaeology recommends that Jack Grynberg and Associates be granted archaeological clearance to proceed with the construction of the Straw Spring No. 3 well pad and access road. The information potential of the five IL's within the well pad boundaries has been exhausted and their loss as a result of the proposed construction and drilling operations has been mitigated against. Given the high archaeological site density in the general vicinity, it is advised that all land altering activities be clearly restricted to the well pad boundaries and the access road corridors surveyed by the archaeologists. Furthermore, Jack Grynberg and Associates should insure that construction and drilling crews do not use the areas adjacent to the well pad and access road for parking or turning their vehicles.

REFERENCES CITED

- Anschuetz, Kurt F.
1982 An Archaeological Survey of One Well Pad and Access Road in San Juan County, Utah for Superior Oil. Division of Conservation Archaeology Contributions to Anthropology Series No. 601. San Juan County Archaeological Research Center and Library, Farmington.
- Gilpin, Dennis and Joseph K. Anderson
1982 An Archaeological Survey of A Seismic Line for Superior Oil Co., on McCracken Mesa, San Juan County, Utah. Ms. Navajo Nation Cultural Resource Management Program Report No. NNCRMP-82-150. Window Rock.

FIGURE 1

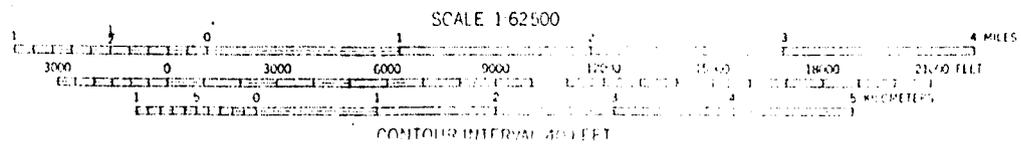
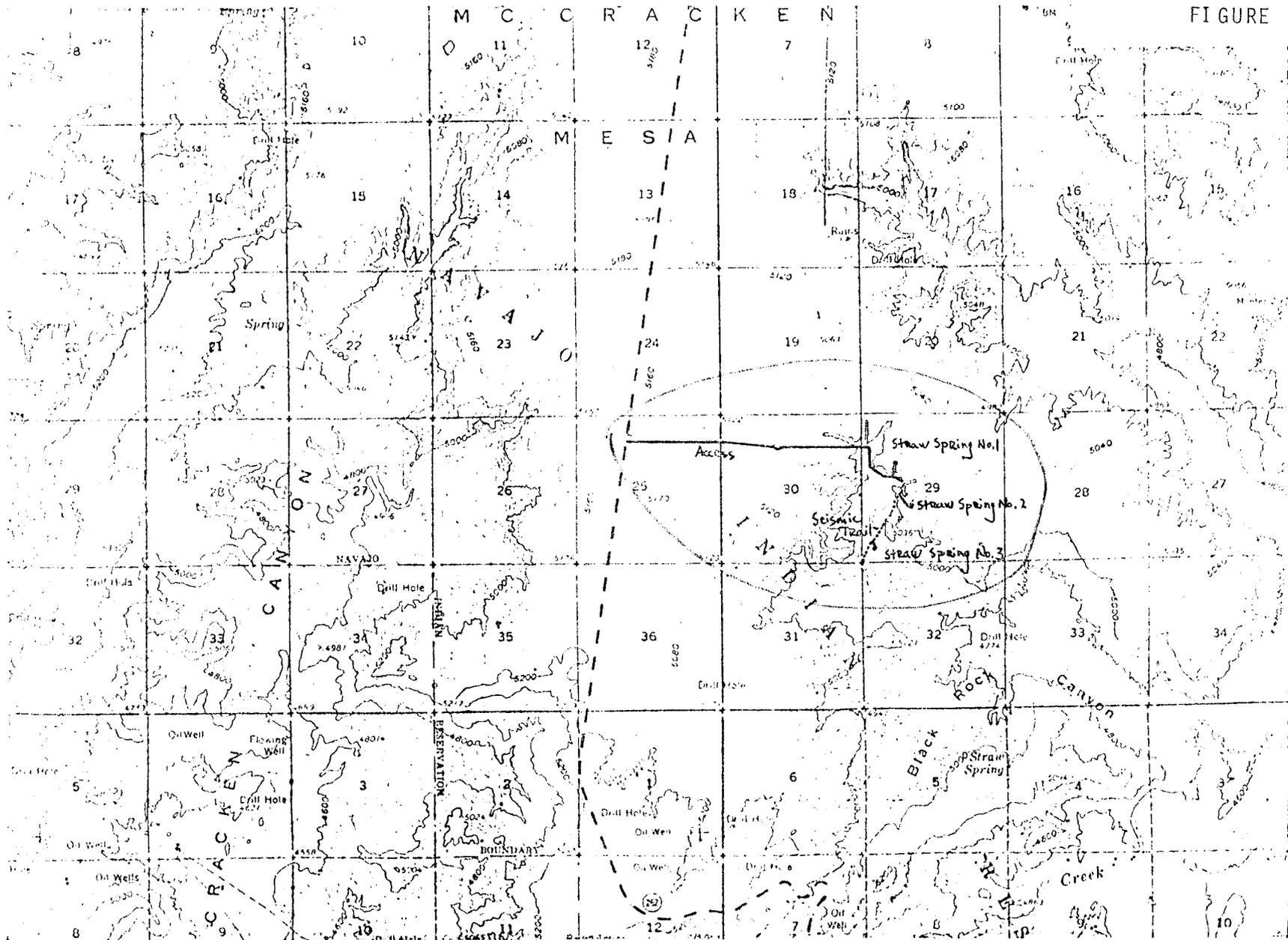
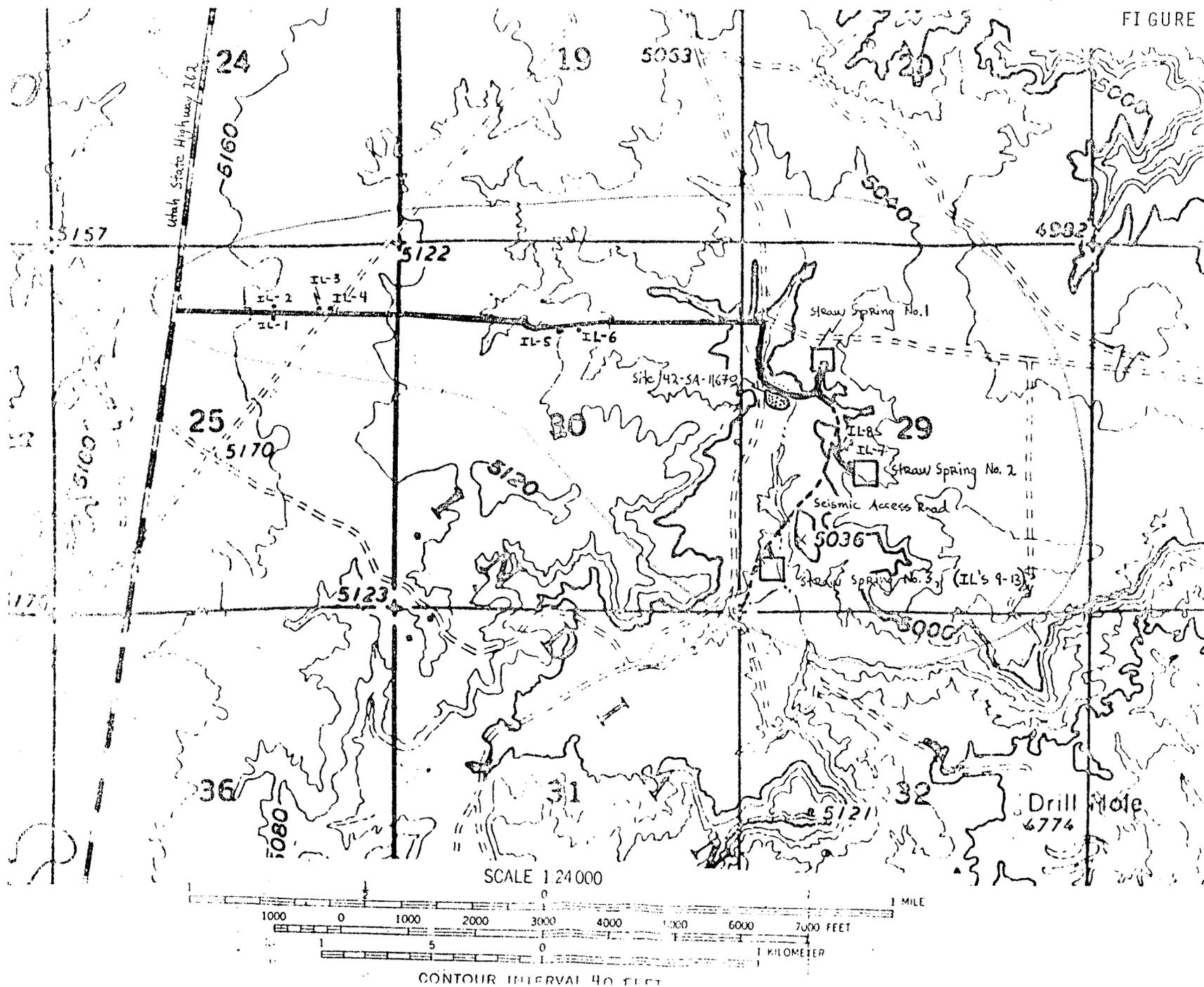


FIGURE 2



JACK GRYNBERG AND ASSOCIATES
PETROLEUM, GEOLOGICAL, GEOPHYSICAL AND MINING ENGINEERS

5608 X 1050 X 17th X STREET X SUITE 1250 X DENVER, COLORADO 80266 X X PHONE 303 X 572 X 755 X 5608

TELEX: 45 4497 ENERGY DVR
TELECOPIER: 303 623-5224

December 10, 1982

GRYNBERG PETROLEUM COMPANY
5000 South Quebec, Suite 500
Denver, CO 80237
303-850-7490

Mr. Norm Stout
Holding File
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 48114

RE: #1-29 Straw Spring Federal
San Juan County, Utah
TOWNSHIP 39 SOUTH - RANGE 24 EAST
Section 29: SW $\frac{1}{4}$ NW $\frac{1}{4}$

Dear Norm:

Please be advised that Celeste C. Grynberg owns or controls all mineral leases within a 660' radius of the proposed location of the subject well for which an exception to Rule C-3 has been requested. We have a farm-out agreement with Provident Resources, Inc., the other leaseholder on the subject acreage and a Designation of Operator executed by Provident in favor of Celeste C. Grynberg.

Sincerely,



Ellen Flannelly
Senior Landman

EF/ggd

RECEIVED
DEC 16 1982
DIVISION OF
OIL, GAS & MINING

Project No. 175-82-c

Federal Antiquities Permit
No. 82-AZ/UT/NM-089

Navajo Nation No. 1981-14

An Archaeological Survey of
One Well Pad and Access Road in
San Juan County, Utah

for

Superior Oil

by

Kurt F. Anschuetz

Submitted by

Margaret A. Powers
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series, No. 601
San Juan County Archaeological Research Center and Library

November 16, 1982

Please note that the operator of this well site has been changed from Superior Oil Company to Celeste C. Grynberg. The number of the well has been changed accordingly to #1-29 Straw Spring. In addition, the access road to the well site has been changed. A new location for the road and accompanying archeological report will be submitted shortly.

ABSTRACT

On November 15, 1982, the Division of Conservation Archaeology of the San Juan County Museum Association completed an archaeological survey of one well pad and its access road for Superior Oil. The survey area is located on the southeast arm of McCracken Mesa in San Juan County, Utah and is under the jurisdiction of the Bureau of Indian Affairs and the Navajo Nation.

Ten isolated loci (IL) were found in the proposed drill pad. No artifacts were noted in the access road. No archaeological sites were encountered within the zones of direct impact. It is recommended that clearance be given to allow Superior Oil to proceed with its drilling operations.

INTRODUCTION

On November 15, 1982, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Superior Oil of Cortez, Colorado. Jack Calhoon of Superior requested the survey on November 12, 1982. Margaret A. Powers administered the project for DCA; Jack Calhoon administered the project for Superior Oil.

In recognition of the limited, nonrenewable nature of archaeological remains, federal and state governments have enacted legislation that is designed to conserve and protect these resources. The principal federal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources Protection Act of 1979 (PL 96-95).

In addition, the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is governed by the stipulations of Federal Antiquities Permit No. 82-AZ/UT/NM-09 and Navajo Nation No. 1981-14 and is for purposes of compliance with these statutes.

Norman B. Nelson, Roger A. Moore, David Simons, and Kurt F. Anschuetz, DCA archaeologists, surveyed the project area for cultural remains.

METHODS

The well pad was surveyed by walking parallel transects 20 meters apart, while the access route was surveyed by walking two zig-zag transects the width of the right-of-way. A buffer zone 50 feet wide was included in the well pad survey, and 15 feet wide on both sides of the access route. The archaeologists recorded all cultural remains. Those whose information potential exceeded what could be extracted during the survey phase were assigned site status. Other cultural remains were documented as isolated loci (IL). Pertinent environmental data were also recorded.

In addition to field inspection, the archaeologists conducted a search of the records at the Division of Archaeology to determine if any sites had been recorded in the project area.

PROJECT AREA

SUPERIOR OIL WELL PAD 29-1 AND ACCESS ROAD

Legal Description: 1631.6' F/NL, 1169.4' F/WL, Section 29,
T39S, R24E, S.L.M., San Juan County, Utah
(well location)
NW $\frac{1}{4}$ SW $\frac{1}{4}$ and SW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 29, T39S, R24E,
S.L.M., San Juan County, Utah (access road)

UTM Coordinates: Zone 12, 4137050N, 649800E (well pad)
Zone 12, 4136725N, 649550E (southwest end of
access road)

Map Source: U.S.G.S. 15' Montezuma Creek, Utah (1962)

Land Jurisdiction: Bureau of Indian Affairs
Navajo Nation

Project Area: 325' x 280' (well pad)
1900' x 50' (access road)
Surveyed Area: 391' x 346' (well pad with buffer)
1900' x 83' (access road with buffer)
6.7 Acres

Description: The well pad is at the head of a broad, shallow rincon. The north side of the pad right-of-way abutts a 3m (9.84 feet) high sandstone outcrop. The east side of the pad is dissected by a shallow arroyo. An outcrop of a poor quality, light green silty chert extends along the south border of the proposed well pad.

The access road begins along the major north-south dirt road in the west quarter of Section 29, approximately 80 meters (262 feet) west of the quarter section marker and 125 meters (410 feet) northeast of an occupied Navajo hogan complex. The access road heads 60 meters (197 feet) southeast to an existing two-track dirt road and sheep trail. The proposed access road turns northeast and follows the existing trail for 270 meters (946 feet). At the midpoint of this section, the road passes a seldom used metal post, wood post and barbed wire corral and crosses a major north-south arroyo, which is 20 meters (65.6 ft) wide and 2.25 meters (7.4 feet) deep. An old bladed crossing is still visible in the arroyo's banks. The access road then turns north along a second two-track dirt path and extends 160 meters (525 feet) to the southeast corner of the well pad. This smaller access road ascends the main drainage of the rincon in which the well pad is situated.

The vegetation cover in the drill pad is light and broken. The heaviest plant cover occurs in the more central portions of the pad. The scantiest cover is on the north and south sides of the pad where rock outcrops are present. The major plant species identified include sagebrush (Artemisia tridentata), snakeweed (Gutierrezia sarothrae), cheat grass (Bromus tectorum), dropseed grass (Sporobolus aeroides), four-wing saltbush

(Atriplex canescens), Indian rice grass (Oryzopsis hymenoides), Russian thistle (Salsola kali), antelope brush (Purshia tridentata), juniper (Juniperus sp.), mountain mahogany (Cercocarpus montanus), narrow leaf yucca (Yucca angustissima), and mammalary cactus (Mammillaria sp.). The vegetation in the access road right-of-way is dominated by snakeweed, cheat grass, and other low, disturbed habitat plant species. The major animal species are jackrabbit and cottontail.

No archaeological sites were found either within the proposed drill pad location or its access road. However, ten isolated loci (IL) were encountered within the drill pad and its buffer zone boundaries. The majority of these remains are believed to be related to three sites adjacent to the buffer zones on the north, east, and west sides of the pad and probably entered the well location through erosional processes. The IL's found within the areas of direct impact and the adjacent buffer zones are described below. No IL's were noted within the access road right-of-way, although there is a generalized scatter of recent trash along the west half of the route. This debris is related to the nearby residence and recent sheep herding activity.

- IL #1 One olive green silty chert secondary reduction flake approximately 15 meters (49 feet) south of the well pad center stake.
- IL #2 One light green chert secondary reduction flake found in a shallow wash 20 meters (65.6 feet) south of the well pad center stake.
- IL #3 One mottled brown and tan chert secondary flake fragment 3 meters (9.8 feet) northeast of the well pad center stake.
- IL #4 One "Skoal" snuff tin with part of the paper label still visible. The label has a computer price (inventory tag). The artifact is 4 meters (13.1 ft) west of the staked northeast corner of the drill pad reserve pit.
- IL #5 One coritcal, light green chert secondary flake 15 meters (49 feet) north-northwest of the well pad center stake.
- IL #6 One 24 oz. stew-type food tin approximately 20 meters (65.6 feet) north of the well pad center stake.
- IL #7 One light green siltstone core fragment in the sandstone rim rock area of the drill pad buffer zone at the northeast corner of the well location. The artifact is between two large bedrock slabs.
- IL #8 One leather cowboy hat 15 meters (49 feet) southwest of the northeast cornrer of the well pad. The artifact is probably less than 5 years old, judging from its condition.
- IL #9 One poor quality, light green silty chert core. The artifact is in the drill pad buffer zone, approximately 20 meters (65.6 feet) west-northwest of the well's northeast corner stake.
- IL #10 One part of a large metal stove pipe 35 meters (114.8 feet) northwest of the well pad center stake. The stove pipe has been cut, but its modified function could not be determined.

The UTM Coordinates for all the IL's are:

Zone 12, 4137050N, 649800E

Zone 12, 4136725N, 649550E

The three sites in close proximity to the well pad have been assigned field numbers NN-26, NN-27, and NN-29. These sites have been recorded as part of the archaeological reconnaissance survey of Section 29, which the Division of Conservation Archaeology is in the process of completing for Superior Oil. These sites are given synoptic descriptions below, because they may be the source areas for the IL's found within the well pad boundaries. It should be noted that the boundaries of the sites are marked with blue-painted lathing. Comprehensive descriptions of these manifestations will be presented in the final report for the section survey (Division of Conservation Archaeology, Contributions to Anthropology Series, No. 600).

NN-26 is located on the dissected ridge slope approximately 8 meters (26.2 feet) east of the well pad buffer zone. The site consists of a localized sherd and lithic scatter with an estimated total of 50 to 60 artifacts. The site appears to have multiple components, as indicated by the presence of one San Jose projectile point and two plain grayware jar body sherds. No hearths or other features were defined. Secondary core reduction predominates. Only one unifacially retouched flake tool was found. The site is a largely surficial manifestation with only a maximum of 10cm of deposition.

NN-27 is on the crest of a north-south ridge formation which overlooks the well pad location. The northeast end of the site is 8 meters (26.2 feet) west of the west end of the drill pad buffer zone. It consists of an extensive but light scatter of chipped stone debitage related to the quarrying and testing of raw lithic materials, and the initial reduction of raw nodules into prepared cores which were then carried elsewhere for further reduction. The site features three major stone outcrops, including light green silty chert, a tan fossiliferous chert, and a medium grain tan quartzite, all of which are found at other archaeological sites in the surrounding vicinity. Thirty to 50 artifacts were defined, with several hundred potential primary flakes and pieces of angular debris also being noted. No hearths or other features were defined.

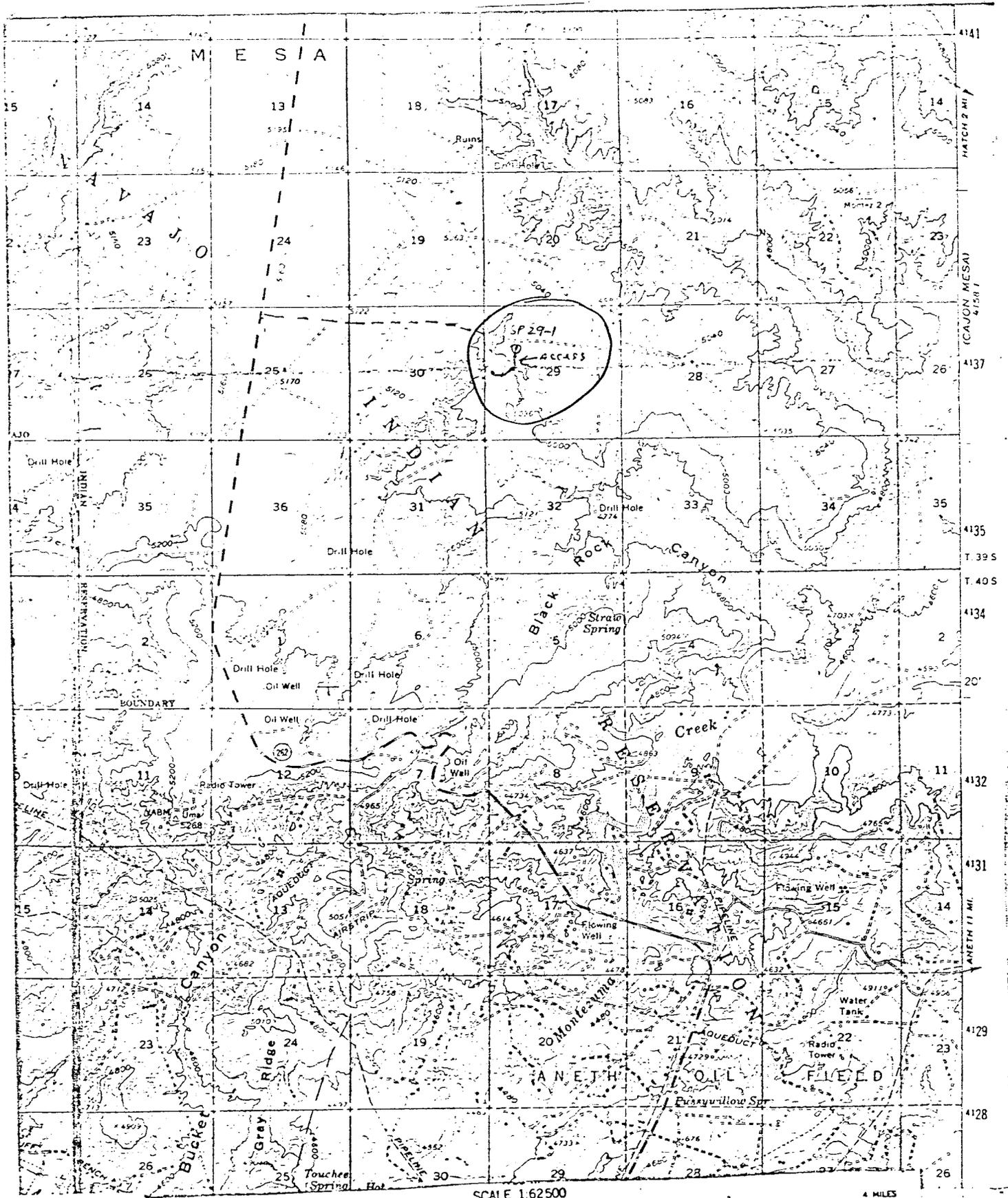
NN-29 is situated on the crest of a major east-west ridge formation immediately north of the well pad and its buffer zone. The site extends to the sandstone rim rock area which forms a 3 meter (9.86 feet) ledge against the drill pad. The site consists of an extensive sherd and lithic scatter with more than 1,000 artifacts scattered on the modern ground surface. The site appears to have late Archaic and unknown Anasazi components on the basis of a large projectile point base and a light scatter of San Jose whiteware sherds.

The lithic assemblage is dominated by secondary core reduction debris. Several discarded cores, tertiary reduction debitage, and biface fragments were also observed. Several groundstone

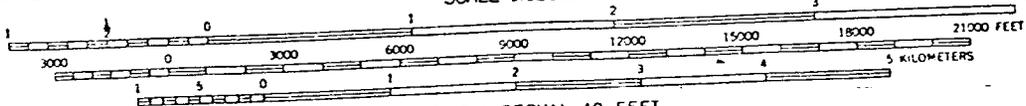
artifacts and small quantities of burned and fire-cracked sandstone were encountered. In addition, a light scatter of modern trash was found along the dirt road which bisects the site area. This debris is undoubtedly related to recent sheep herding activities in the general vicinity.

REcommendations: The division of Conservation Archaeology recommends that Superior Oil be allowed to proceed with the construction of drill pad 29-1 given the provision that all activities are restricted to the boundaries and buffer zones of the well pad and its access road. The information potential of the ten IL's within the surveyed areas has been exhausted and their loss due to the proposed land altering activities has been mitigated against.

Figure 1



SCALE 1:62500



CONTOUR INTERVAL 40 FEET
 DOTTED LINES REPRESENT 20-FOOT CONTOURS
 DATUM IS MEAN SEA LEVEL

MONTEZUMA CREEK, UTAH
 N3715-W10915/15

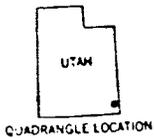
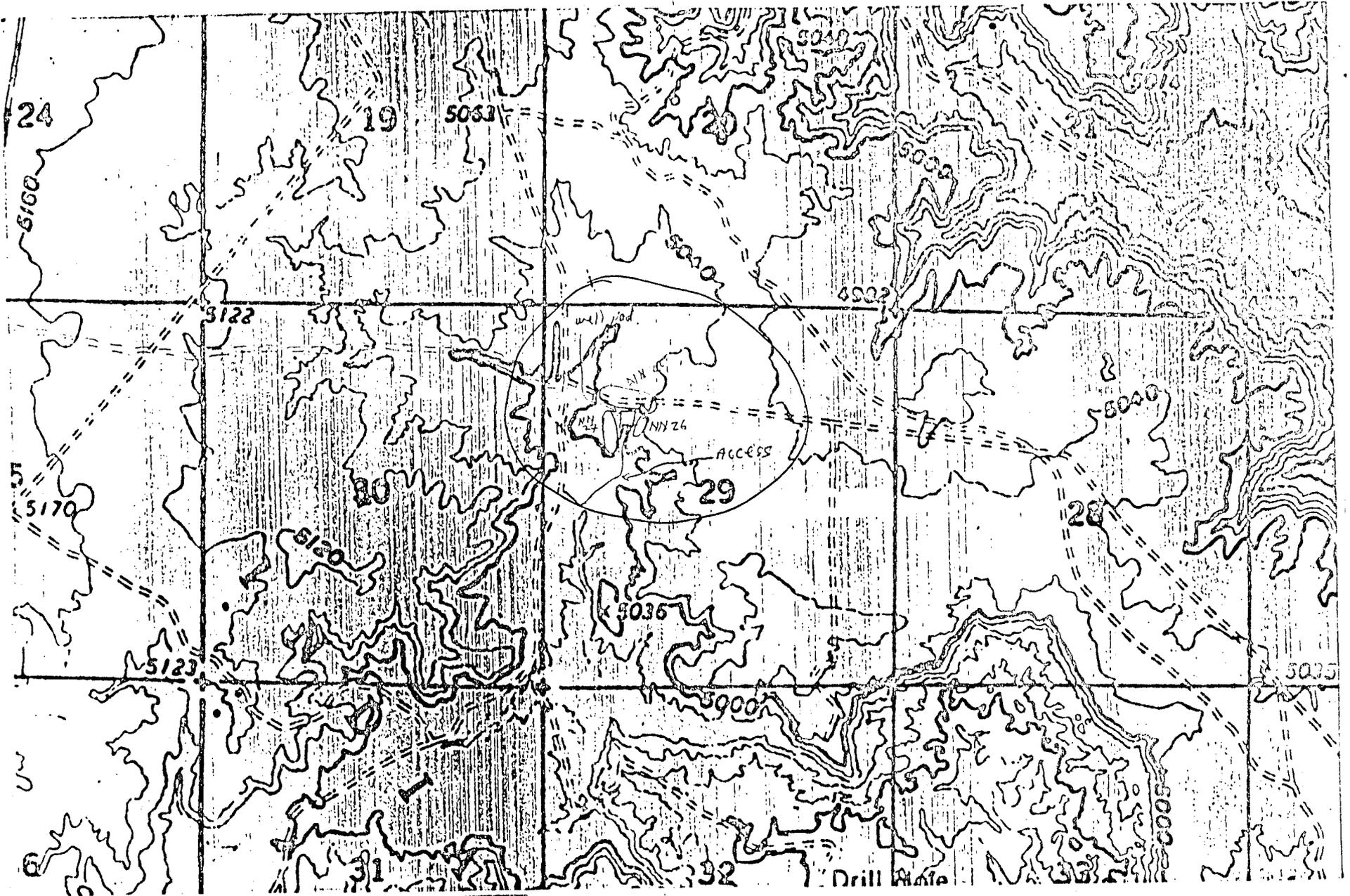


FIGURE 2



Sites located around well pad.
Scale: 1:2400

December 17, 1982

Celeste C. Grynberg
5000 South Quebec, Suite 500
Denver, Colorado 80237

RE: Well No. Straw Spring #1-29
SWNW Sec. 29, T.39S, R.24E
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer
Office: 533-5771
Home: 571-6068

OR

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30861.

Sincerely,



Norman C. Stout
Administrative Assistant

NCS/as
cc: MMS
Enclosure

JACK GRYNBERG AND ASSOCIATES

REAL ESTATE DEVELOPMENT DIVISION

1050 17th STREET SUITE 1950 DENVER, COLORADO 80265 PHONE 303-572-1455

TELEX: 45-4497 ENERGY DVR
TELECOPIER: 303-623-5224

December 14, 1982

GRYNBERG PETROLEUM COMPANY
5000 South Quebec, Suite 500
Denver, CO 80237
303-850-7490

Mr. Ron Firth
Division of Oil, Gas, and Mining
4241 State Office Building
Salt Lake City, UT 84114

RECEIVED
DEC 20 1982

RE: Township 39 South, Range 24 East
Section 29
✓ Straw Spring #1, 2 and 3
San Juan County, Utah

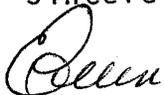
**DIVISION OF
OIL, GAS & MINING**

Dear Ron:

Enclosed is a copy of the archaeological survey conducted on November 29, 1982 on the revised access road to #1-29 Straw Spring and the well pads and access roads for #2 and 3-29. This report completes the information submitted as part of our APD's for these wells.

Thanks again for your assistance.

Sincerely,



Ellen Flannelly
Senior Landman

EF/ggd
encl.

JACK GRYNBERG AND ASSOCIATES
 PETROLEUM, GEOLOGICAL, GEOPHYSICAL AND MINING ENGINEERS

*** X1059 X170 X STREET X X SM X DE 1982 X X DENVER X COLORADO X 80261 X X PHONE 353 X 572 X 456 X ***

TELEX: 45-4497 ENERGY DVR
 TELECOPIER: 303-623-5224

December 21, 1982

GRYNBERG PETROLEUM COMPANY
 5000 South Quebec, Suite 500
 Denver, CO 80237
 303-850-7490

Mr. Ron Firth
 Division of Oil, Gas and Mining
 4241 State Office Building
 Salt Lake City, UT 84114

RE: TOWNSHIP 39 SOUTH - RANGE 24 EAST
 Section 29: SW $\frac{1}{4}$ NW $\frac{1}{4}$
 San Juan County, Utah
 #1-29 Straw Spring

Dear Ron:

Enclosed is a copy of a Sundry Notice submitted to the Federal Minerals Management Service changing the casing and cementing program for the captioned well. We anticipate commencing drilling on December 31, 1982.

Sincerely,

Ellen Flannelly

Ellen Flannelly
 Senior Landman

EF/ggd
 encl. 1

RECEIVED

DEC 21 1982

**DIVISION OF
 OIL, GAS & MINING**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Celeste C. Grynberg

3. ADDRESS OF OPERATOR
5000 South Quebec, Suite 500, Denver, CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1631.6' FNL, 1169.4' FWL
AT TOP PROD. INTERVAL: SAME
AT TOTAL DEPTH:

5. LEASE
USA-U-21269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#1-29 Straw Spring

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T39S-R24E, S1M

12. COUNTY OR PARISH
San Juan

13. STATE
UTAH

14. API NO.

15. ELEVATIONS (SHOW DF, KDB. AND WD)
5003.11 GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Changing Casing & Cementing Program

SUBSEQUENT REPORT

RECEIVED

DEC 21 1982

(NOTE - Report results of multiple completion or zone change on Form 9-330.)

DIVISION OF
OIL GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

12/21/82 - CHANGE CASING & CEMENTING PROGRAM TO THE FOLLOWING:

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	13 3/8" Conductor Pipe	J-55 68#	60'	Ready Mix to Surf
12 1/4"	9 5/8"	N-80 43.5#	2000'	1000 Sxs.
7 7/8"	5 1/2"	J-55 15.5#	6300'	500' above top of pay.

- Spud with rat hole rig. Drill 20" hole to 60' and set 13 3/8" Conductor pipe.
- Move in and Rig up Rotary Rig. Drill 12 1/4" hole to 2000' and set 9 5/8" surface casing.

(OVER)

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Ellen Flannelly TITLE ATTORNEY-IN-FACT FOR DATE 12/21/82
ELLEN FLANNELLY CELESTE C. GRYNBERG

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

*See Instructions on Reverse Side

DATE: 12/21/82
BY: [Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
USA-U-21269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#1-29 Straw Spring

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
29, T39S-R24E, SLM

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN SALTPETER PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Celeste C. Grynberg

3. ADDRESS OF OPERATOR
5000 So. Quebec, Ste. 500, Denver, Colorado 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface: 1631.6' FNL, 1169.4' FWL
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
N/A

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1169.4'

16. NO. OF ACRES IN LEASE
2390.00

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1813.4'

19. PROPOSED DEPTH
6300'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5003.11 GR

22. APPROX. DATE WORK WILL START*
Dec. 31, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
2 1/2" 20"	13-3/8"	J-55 68#	100' 60'	Cement to Surface (Ready mix)
12-1/4"	9-5/8"	N-80 43.5#	1015' 2000'	1000 sx
7-7/8"	5-1/2"	J-55 15.5#	6300'	500' Above Top of Pay

1. Rig up ^{RATHOLE DIGGER} Drill ~~13-3/8"~~ hole to ~~100'~~ 60' and set 13-3/8" surface casing.
2. Drill 12-1/4" hole to ~~1015'~~ 2000' and set 9-5/8" casing.
3. Drill 7-7/8" hole to 6300'.
4. Run tests and logs.
5. Set 5-1/2" production casing if warranted.
6. Perforate and stimulate as needed.

1A. Change out rig within 60 days.

RECEIVED
DEC 23 1982

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Ellen Flannelly TITLE Attorney-in-Fact for Celeste C. Grynberg DATE Nov. 30, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY W. J. Martin FOR E. W. GUYNN DATE DEC 22 1982

TITLE DISTRICT OIL & GAS SUPERVISOR

CONDITIONS OF APPROVAL, IF ANY:

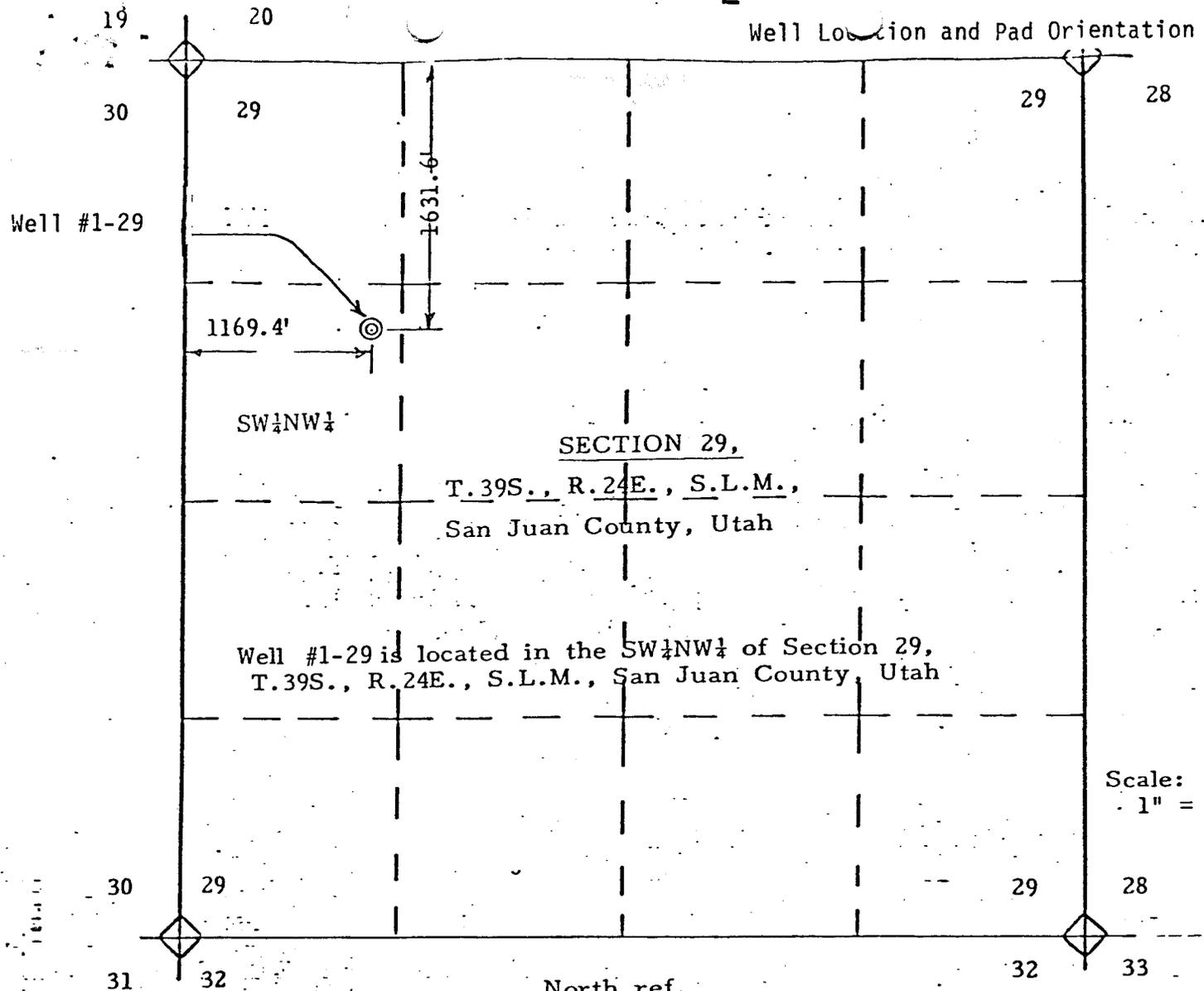
NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-1 DATED 1/1/80

State O&G

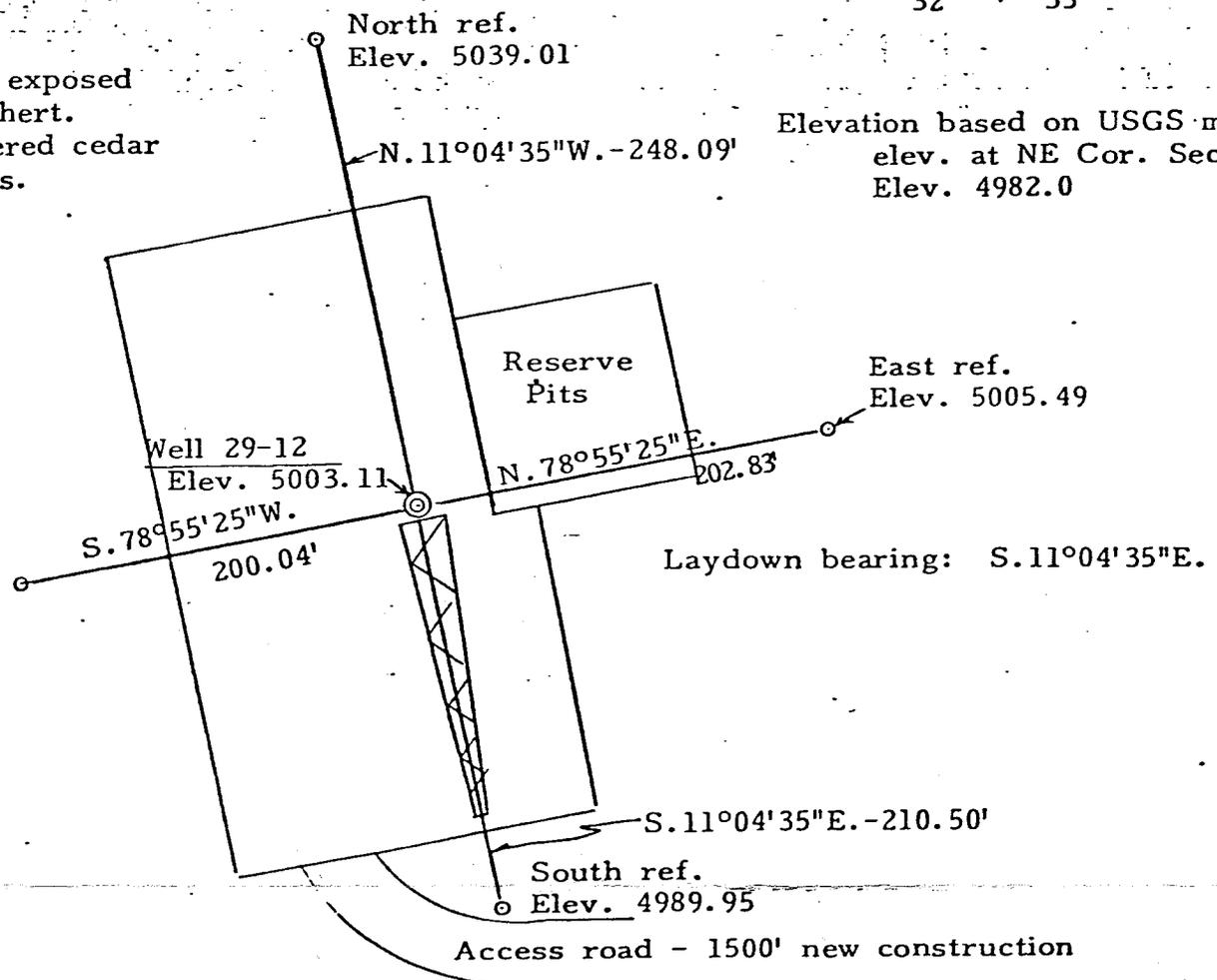
Well Location and Pad Orientation



Scale: 1" = 1000'

Soil: Shallow with exposed sandstone and chert.
Vegetation: Scattered cedar and sparse grass.

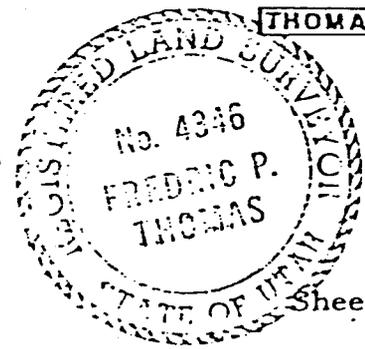
Elevation based on USGS map elev. at NE Cor. Sec. 29 Elev. 4982.0



Scale: 1" = 100'

KNOW ALL MEN BY THESE PRESENTS: THAT I, FREDRIC P. THOMAS do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the same is true and correct to the best of my knowledge and belief.

Fredric P. Thomas
FREDRIC P. THOMAS Bearing by
Reg. L.S. and P.E. Solar
Colo. Reg. No. 6728 observation
Utah reg. no. 4346



THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
365-4496

Celeste C. Grynberg
Well No. 1-29
Section 29, T.39S., R.24E.
San Juan County, Utah
Lease U-21269

Supplemental Stipulations:

1. A professional Archeologist will be employed to monitor all construction activities.

NOTICE OF SPUD

Company: Celest C. Grynberg

Caller: Nancy Stolze

Phone: 303-850-7490

Well Number: # 1-29 Straw Spring Federal

Location: 29-T.39S, R.24E

County: San Juan State: Utah

Lease Number: U-21269

Lease Expiration Date: _____

Unit Name (If Applicable): Straw Spring

Date & Time Spudded: 12-29-82

Dry Hole Spudder/Rotary: _____

Details of Spud (Hole, Casing, Cement, etc.) _____

Drilled 56^{FT}

Rotary Rig Name & Number: Rat hole rig

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: Becky G.

Date: 12-30-82

State 046 ✓
Vernal MMS
Teresa
Diane
File

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Celeste C. Grynberg

3. ADDRESS OF OPERATOR
5000 South Quebec, Suite 500, Denver, CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 1631.6' FNL & 1169.4' FWL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
USA-U-21269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#1-29 Straw Spring

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T39S-R24E, SLM

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5003.11 GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) SPUD AND SET CONDUCTOR PIPE	<input type="checkbox"/>	<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

12/29/82 Spud 12/29/82.
Drilled 20" hole to 60' set 13 3/8" Conductor pipe @60' with 4 1/2 Yards ready mix. Released rat hole rig 12/30/82.

Will recommence drilling operation with Bayless Drilling Company's Rig #5 on or before 60 days from rat hole rig release.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Ellen Flannelly TITLE SENIOR LANDMAN DATE 1/3/83
ELLEN FLANNELLY

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

M

JACK GRYNBERG AND ASSOCIATES
 PETROLEUM, GEOLOGICAL, GEOPHYSICAL AND MINING ENGINEERS

X1950 X17th STREET X SUITE X1950 XXX DENVER, COLORADO 80265 XXX PHONE 303 X572 X365 X

TELEX: 45-4497 ENERGY DVR
TELECOPIER: 303-623-5224

GRYNBERG PETROLEUM COMPANY
 5000 South Quebec, Suite 500
 Denver, CO 80237
 (303) 850-7490

January 3, 1983

Division of Oil, Gas and Mining
 4241 State Office Building
 Salt Lake City, UT 84114

ATTN: Mr. Ron Firth

Re: Sundry Notice #1-29 Straw Spring
TOWNSHIP 39 SOUTH - RANGE 24 EAST
 Section 29: SW $\frac{1}{4}$ NW $\frac{1}{4}$
 San Juan County, UT

Dear Mr. Firth:

Enclosed please find two (2) copies of the Sundry Notice on the above well.

If you have any questions, please call us at the above number.

Sincerely,

GRYNBERG PETROLEUM COMPANY

Ellen Flannelly

Ellen Flannelly
 Senior Landman

E:gh
 Encl. 2

RECEIVED
 JAN 05 1983
 DIVISION OF
 OIL, GAS & MINING

JACK GRYNBERG AND ASSOCIATES

PETROLEUM, GEOLOGICAL, GEOPHYSICAL AND MINING ENGINEERS

XXXXXX STREET XXXX SUITE XXXX DENVER COLORADO 80237 XXXX PHONE 303 XXXX 572XXXX

TELEX: 45-4487 ENERGY DVR
TELECOPIER: 303-623-5224

January 10, 1983

GRYNBERG PETROLEUM COMPANY
5000 South Quebec, Suite 500
Denver, CO 80237
(303) 850-7490

Mr. Ronald J. Firth
Drilling Engineer
State of Utah
Department of Natural Resources & Energy
Oil, Gas & Mining Division
4241 State Office Bldg.,
Salt Lake City, UT 84114

Re: ✓ CELESTE C. GRYNBERG
#1-29 Straw Spring Federal
Sec. 29, T39S-R24E
San Juan County, UT

Dear Mr. Firth:

Enclosed please find two (2) copies of the Form 9-331, Sundry Notices and Reports on Wells.

If there are any questions, please call us at the above number.

Sincerely,

GRYNBERG PETROLEUM COMPANY


Chris Pennels
Drilling Coordinator

RECEIVED
JAN 12 1983

CP:gh
Encl. 2

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
CELESTE C. GRYNBERG

3. ADDRESS OF OPERATOR
5000 South Quebec, Suite 500, Denver, CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1631.6' FNL & 1169.4' FWL
AT TOP PROD. INTERVAL: 1631.6' FNL & 1169.4' FWL
AT TOTAL DEPTH:

5. LEASE
USA-U-21269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#1-29 Straw Spring

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T39S-R24E, SLM

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30861

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5003.11' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) RECOMMENCE OPERATIONS	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1) Move in and rig up Rotary Tools (Bayless Drilling Co., Rig #5) on 1/7/83. Re-commence operations 6AM on 1/8/83. Drilled 12 1/4" hole to 2000' and set 9 5/8" surface casing.

RECEIVED
JAN 12 1983

DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu: and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Chris Pennels TITLE DRILLING COORDINATOR DATE 1/10/83
CHRIS PENNELS

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

JACK GRYNBERG AND ASSOCIATES

PETROLEUM, GEOLOGICAL, GEOPHYSICAL AND MINING ENGINEERS

1060 17th STREET SUITE 1950 DENVER, COLORADO 80265 PHONE 303 572-0455

TELEX: 45-4497 ENERGY DVR
TELECOPIER: 303-623-5224

GRYNBERG PETROLEUM COMPANY
5000 South Quebec, Suite 500
Denver, CO 80237
(303) 850-7490

January 18, 1983

Mr. Ronald J. Firth
Drilling Engineer
State of Utah
Department of Natural Resources & Energy
Oil, Gas & Mining Division
4241 State Office Bldg.,
Salt Lake City, UT 84114

Re: CELESTE C. GRYNBERG
#1-29 Straw Spring Federal
Sec. 29, T39S-R24E
San Juan County, UT

RECEIVED

JAN 20 1983

DIVISION OF
OIL, GAS & MINING

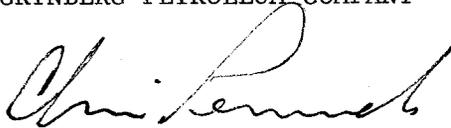
Dear Mr. Firth:

Enclosed please find two (2) copies of the Form 9-331, Sundry Notices and Reports on Wells.

If there are any questions, please call us at the above number.

Sincerely,

GRYNBERG PETROLEUM COMPANY



Chris Pennels
Drilling Coordinator

CP:gh
Encl. 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
CELESTE C. GRYNBERG

3. ADDRESS OF OPERATOR
5000 South Quebec, Suite 500, Denver, CO 80265

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1631.6' FNL & 1169.4' FWL
AT TOP PROD. INTERVAL: 1631.6' FNL & 1169.4' FWL
AT TOTAL DEPTH:

5. LEASE
USA-U-21269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#1-29 Straw Spring

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T39S-R24E, SLM

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30861

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5003.11' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

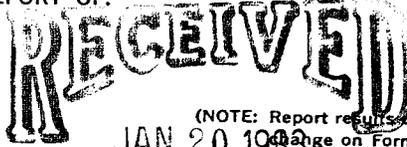
MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Laid down casing

SUBSEQUENT REPORT OF:



(NOTE: Report results of multiple completion or zone change on Form 9-330.)

DIVISION OF
OIL GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1/11/83 Ran 9 5/8" 43.5# N-80 Csg., set @2040', Cmt w/800 sxs Haliburton lite w/10# gilsonite p/sxs and 200 sxs Hali Class "B" w/2% Cal.Chl. Pressure tested Csg. to 1000# for 30 mins.-held OK. WOC 18 Hrs. Circ. 150 sxs back to surface.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Chris Pennels TITLE Drilling Coordinator DATE 1/18/83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR CELESTE C. GRYNBERG</p> <p>3. ADDRESS OF OPERATOR 5000 South Quebec, Suite 500, Denver, CO 80237</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1631.6' FNL & 1169.4' FWL AT TOP PROD. INTERVAL: 1631.6' FNL</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. USA-U-21269</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A</p> <p>7. UNIT AGREEMENT NAME N/A</p> <p>8. FARM OR LEASE NAME Federal</p> <p>9. WELL NO. #1-29 Straw Spring</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T 39 S - R 24 E, S1</p>	
<p>14. PERMIT NO. API-43-037-30861</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5003.11' GR</p>	<p>12. COUNTY OR PARISH San Juan</p>	<p>13. STATE Utah</p>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>INTENTION TO P & A</u> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1) Pressure test 9 5/8" surface casing to 1000# for 30 mins, WOC 12 Hrs.; drill out with 7 7/8" on 1/12/83. Drill to TD of 6300'. Reached TD on 1/22/83.

2) After log evaluation, decision to plug well as follows:
6300'-6040' 81 Sxs; 5150'-5550' 34 Sxs; 4000'-3900' 34 Sxs; 3000'-2900' 34 Sxs;
2100'-1990' 37 Sxs; 1000'-950' 18 Sxs; 110'-Surface 37 Sxs. Cmt with Class "B".
(Expect to plug 1/23/83).

Plugging procedure approved by Minerals Management "Dean Elliot", Farmington, NM.

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 2/14/83
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE DRILLING COORDINATOR DATE 1/26/83
CHRIS PENNELS

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

GRYNBERG PETROLEUM COMPANY

5000 SOUTH QUEBEC • SUITE 500 • DENVER, COLORADO 80237, USA • PHONE 303 - 850-7490

TELEX: 45-4497 ENERGY DVR
TELECOPIER: 303 - 753-9997

January 26, 1983

Mr. Ronald J. Firth
Drilling Engineer
State of Utah
Department of Natural Resources & Energy
Oil, Gas & Mining Division
4241 State Office Bldg.,
Salt Lake City, UT 84114

RECEIVED
JAN 31 1983

Re: CELESTE C. GRYNBERG
#1-29 Straw Spring Federal
Sec. 29, T39S-R24E
San Juan County, UT

DIVISION OF
OIL, GAS & MINING

Dear Mr. Firth:

Enclosed please find two (2) copies of the Sundry Notice Reports on Wells regarding the Intention to Plug and Abandon the above captioned well.

If there are any questions, please call us at the above number.

Sincerely,

GRYNBERG PETROLEUM COMPANY



Chris Pennels
Drilling Coordinator

CP:gh
Encl. 2

3 M 5

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved,
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other

2. NAME OF OPERATOR
CELESTE C. GRYNBERG

3. ADDRESS OF OPERATOR
5000 South Quebec, Suite 500, Denver, CO 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1631.6' FNL & 1169.4' FWL
At top prod. interval reported below 1631.6' FNL
At total depth

SW/NW

14. PERMIT NO. DATE ISSUED
API-43-037-30861 12/22/83

5. LEASE DESIGNATION AND SERIAL NO.
USA-H-21269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#1-29 Straw Spring

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY
Sec 29 T 39 S 1 E, SLM

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

15. DATE SPUNDED 12/29/83 16. DATE T.D. REACHED 1/22/83 17. DATE COMPL. (Ready to prod.) P & A 1/23/83 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5003.11' GR 19. ELEV. CASING HEAD

20. TOTAL DEPTH, MD & TVD 6300' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE?

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction-SFI, Compensated Neutron Formation Density

27. WAS WELL CORDED

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	68#	60'	20"	Ready Mix to Surface	
9 5/8"	43.5#	2040'	12 1/4"	1000 Sxs. Cmt.	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)
P & A 1/23/83

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
SIGNED Chris Pennels TITLE DRILLING COORDINATOR DATE 2/8/83

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 83, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
 SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
ISMAY	5955	6111	L.S., Tight
DESERT CREEK	6151	6258	L.S., Dol & Anhydrites, Tight
DSE	6187	6271	
TO 10 min SI 60 min			TO 60 Min SI 120 Min
IHP 2961.5			
1ST F 105.6 - 134.6			
1ST 211.1			
2ND F 132-134.6			
FSL 132			
FHP 2961.5			
Rec: 20 ft of mud			

GEOLOGIC MARKERS		MEAS. DEPTH	TRUE VERT. DEPTH
CHINLE		2064	2064
DECHELLY		3148	3148
ORGAN ROCK		3192	3192
CUTLER		3860	3860
HERMOSA		4899	4899
ISMAY		5955	5955
GOTHIC SH		6111	6111
DESERT CR		6151	6151

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
CELESTE C. GRYNBERG

3. ADDRESS OF OPERATOR
5000 South Quebec, Suite 500, Denver, CO 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1631.6' FNL & 1169.4' FWL
AT TOP PROD. INTERVAL: 1631.6' FNL
AT TOTAL DEPTH:

5. LEASE
USA-U-21269

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#1-29 Straw Spring

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T 39 S - R 24 E, SLM

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
API-43-037-30861

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5003.11' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input checked="" type="checkbox"/>
(other)			<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1/23/83 Plugged and Abandon as follows:

6300' - 6040' 81 Sxs; 5150'-5050' 34 Sxs; 4000'-3900' 34 Sxs' 3000'-2900' 34 Sxs; 2100'-1990' 37 Sxs; 1000'-950' 18 Sxs; 110'-surface 37 Sxs. Cmt w/Class "B", 275 Sxs. (Plugs procedure approved by Mineral Management "Dean Elliot", Farmington, NM. Job completed @9:01AM 1/23/83. Dry Hole Marker Set.

**ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: 2/19/83
BY: [Signature] set @ _____ Ft.

Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE DRILLING COORDINATOR DATE 2/8/83
CHRIS PENNELS

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: